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ABSTRACT

A study was conducted to compare the academic progress of community college transfers, senior college transfers and continuing sophomores and juniors (natives) at the University of Illinois at Chicago (UIC) as measured by mean grade point average (GPA), academic status, and retention through eight terms after transfer. Study findings, based on data on 1,078 community college transfers, 1,289 senior college transfers, and 1,368 natives, included the following: (1) the community college transfer group had the highest pre-transfer GPA; (2) none of the transfer groups equalled or exceeded their pre-transfer GPA the first term; (3) 42% of the community college transfers, 40% of the four-year college transfers, and 78% of the native students had graduated or remained enrolled after eight terms; (4) approximately 25% of the community college transfer group and 21% of the four-year college transfer group left UIC for academic reasons; (5) of the three groups, community college transfers achieved the lowest mean GPA in a majority of 10 subject areas studied; and (6) in comparison to 1973 student patterns, graduation rates 2 years after transfer declined by approximately 50% for community college and four-year college transfers and native graduation rates remained constant. (LAL)

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TWO-YEAR COMPARISON
OF
TRANSFER AND NATIVE STUDENT PROGRESS
UNIVERSITY OF ILLINOIS AT CHICAGO
FALL, 1981 GROUP

by

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University Office of School and College Relations

Research Memorandum 85-1

July, 1985

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RESEARCH SUMMARY

University Office of School and College Relations

Two-Year Comparison of Transfer and Native Student Progress[1]
University of Illinois at Chicago
Fall, 1981 Group

Purpose

The purpose of this study is to compare the academic progress of two-year college transfers, four-year college transfers, and continuing sophomores and juniors (natives) at the University of Illinois at Chicago as measured by mean grade point average (GPA), academic status, and continued enrollment through two years after transfer. A secondary purpose is to compare performance after transfer with performance before transfer on the basis of mean GPA. These three groups are also compared in ten subject matter areas on the basis of mean grade point average during the 1981-82 and 1982-83 academic years.

Summary of Results

1. Forty-two percent of the community college transfers and 40 percent of the four-year college transfers had graduated or continued on clear or probationary status two years after transfer. The retention ratio is 78 percent for the native sophomores and juniors. Seven percent of the community college group and 9 percent of the four-year group had graduated two years after transfer. Two-year graduation rates for transfers have declined by one-half since 1973. Two out of five (40%) of the native sophomores and juniors had graduated.

2. Two-year transfers and four-year transfers entered with mean pre-transfer GPA's of 3.82 and 3.67, respectively. Continuing native students had compiled a UIC mean GPA of 3.65. Both two-year and four-year transfer students experienced a first term drop in mean GPA. The community college group experienced the greater "transfer shock," with a .35 drop in GPA, accompanied by a decrease of .14 for the four-year group. The community college group did not recover their pre-transfer GPA during the two years included in this study. The four-year college transfers achieved a GPA above that group's pre-transfer GPA only once, while the native group exceeded its lower division mean GPA three times.

3. By the end of the second year following transfer, 25 percent of the community college transfers and 21 percent of the four-year college transfers had been dropped or left while on probation.

Policy Considerations

Consideration should be given to the problem of declining graduation rates experienced by community college and four-year college transfers. This substantial decline in the last decade is accompanied by a slight increase in retention rates for the two-year group over the fall, 1980 transfers. However, both transfer groups continued to experience retention rates substantially lower than continuing sophomores and juniors at UIC. While the selection process for transfer students at UIC should continue to provide opportunity for access to bachelor's degree programs, additional attention should be focused on improving the "success rate" for these transfers.

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[1]This summary, prepared by Ernest F. Anderson, presents the findings of Research Memorandum 85-1, which is available through the University Office of School and College Relations, 409 E. Chalmers-Room 311, Champaign, IL 61820 (217-333-2032).

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I. INTRODUCTION

The number of new transfers (including inter-campus and readmits) enrolled at the University of Illinois at Chicago (University Center)* decreased 11 percent from 2,364 (40% of the new undergraduate students) in the 1970 fall term to 2,093 (41% of the new undergraduate students) in the 1981 fall term,[1,2] but the proportion of new undergraduate students increased from 40 to 41 percent during the same period because there was a decrease in the total undergraduate enrollment. In 1981, approximately 34 percent of the total fall term undergraduate enrollment had transferred to UIC,[3] and approximately 52 percent of the transfer student enrollment had last attended a community or junior college. In that same term, UIC received 365 new transfers from the seven City Colleges of Chicago; these transfers represented 37 percent of all new community college transfers to UIC that term.[4]

These data document the relative importance of transfer students to the total student enrollment and intellectual life at UIC when compared with beginning freshmen. During the twelve-year period from fall, 1970 through fall, 1981, approximately 40 percent of the new undergraduates at UIC entered as transfer students, while 60 percent entered as beginning freshmen. This

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[1] University of Illinois, Enrollment Tables, First Semester or Fall Quarter, 1970-71. Champaign: University Office of School and College Relations, University of Illinois, January, 1971, p. 15.

[2] University of Illinois, Enrollment Tables, First Semester or Fall Quarter, 1981-82. Champaign: University Office of School and College Relations, University of Illinois, March, 1983, p. 20.

[3] Ernest F. Anderson, "Transfer Student Enrollment at Chicago Circle, Fall, 1981." Champaign: University Office of School and College Relations, University of Illinois, Memorandum dated Apr. 6, 1982.

[4] Ibid., Tables 1 and 2.

* Note: Changed from University of Illinois at Chicago Circle (UICC) to University of Illinois at Chicago (UIC) as of August, 1982. The data presented in this research memorandum pertain to students at the University Center (previously Chicago Circle) only.

trend also continued for the fall, 1982 enrollment[5] at UIC. Therefore, the number and academic achievements of transfer students contribute in a substantial way to the number and quality of graduates from UIC.

Purpose

The purpose of this study is to describe and analyze the academic progress of community college transfers, senior college transfers, and continuing sophomores and juniors (natives) at the University of Illinois at Chicago, as measured by mean grade point average (GPA), academic status, and continuing enrollment and graduation (collectively termed "retention") through eight terms, or two academic years, after transfer. A secondary purpose is to compare the academic achievement of each transfer group after transfer with that group's performance before transfer on the basis of mean grade point average.

The three groups are compared in ten subject matter areas on the basis of mean grade point average during the eight terms surveyed by this study. Differences in academic achievement and graduation rates of transfers from individual community colleges with five or more transfer students during the 1981 fall term are also reported and analyzed. The study analyzes the relationship between the mean change in grade point average from pre-transfer GPA to UIC GPA for each community college and the retention rates for the transfers from that institution to test whether or not there is a significant difference in the effectiveness of transfer grade point average as a predictor of retention and achievement among various community colleges.

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[5]University of Illinois, Enrollment Tables, First Semester or Fall Quarter, 1982-83. Champaign: University Office of School and College Relations, University of Illinois, June, 1984, p. 20.

Method

This study provides a description and analysis of data for two groups of transfer students and a comparison group of UIC students who have earned all of their college credit at UIC. Community college transfers in the study include all the new and readmitted students at UIC for the 1981 fall term who have completed eighteen or more quarter hours prior to transfer and whose institution of last attendance was a community or junior college. This group is comprised predominately of students who have transferred from public community and junior colleges in Illinois. The population of 1,078 community college transfers entered UIC with a mean pre-transfer grade point average of 3.82 (A=5.00).

Transfers from four-year colleges and universities include all new and readmitted students to UIC for the 1981 fall terms who had completed eighteen or more quarter hours before transfer and whose institution of last attendance awards a baccalaureate degree. This population of 1,289 students entered with a mean pre-transfer grade point average of 3.67 (A=5.00).

The native students (comparison group) include 1,368 fall, 1981 continuing sophomores and juniors who entered UIC as beginning freshmen and who had successfully completed at least 45 and fewer than 135 quarter hours at UIC and did not receive transfer credit from another institution. Continuing sophomores and juniors were selected for the control group because the majority of the transfers to UIC had completed transfer credit which placed them at these two class levels. The University of Illinois mean GPA earned by these students before selection into this group was 3.65 (A=5.00). Even though this group was utilized as a basic control, it should not be assumed that the three populations are matched with respect to the academic variables known to make a significant contribution to college performance; i.e., ACT score and high

school percentile rank in class. It was estimated that the native group had completed an average of 90 quarter hours, making it likely that this group will have higher graduation and retention rates after eight more terms than the transfer group.

Data for this study are based on the final Student Record Master tapes for fall, winter, spring, and summer terms for the 1981 fall term through the 1983 summer term as reported in the Community College Transfer Student Summary of Progress Report for the Office of Admissions and Records. The confidential Community College Transfer Student Summary of Progress Reports list the following data for individual community college and four-year transfer students: name, UIC college, curriculum, class, pre-transfer GPA, mean and median UIC term GPA in the subject for all courses combined, and student status (number graduated, number on clear, number on probation, number dropped, and number who withdrew). These same data are presented in summary form for each of eight terms for all community college transfers, all four-year transfers, and all continuing sophomores and juniors (natives).

Each community college transfer and each four-year college transfer were tracked from term to term as a basis for verifying the academic status of each student at the end of the 1982-83 academic year. Students on clear or probationary status at the end of a term who failed to re-enroll were reported as "left on clear" or "left on probation" in the final summary so that each individual was accounted for in the two transfer groups. Continuous term-to-term academic status data were not available in printed form for individual native students; therefore, some error (less than one percent) in the net count of native students listed as "dropped" or "withdrew" is possible, as some students could have been readmitted and counted in another status category or continued as undergraduates after graduation.

Three academic status categories are utilized in the calculation of a retention ratio for each group. The retention ratio represents the proportion of each original 1981 fall group which has graduated or is still enrolled at the conclusion of each term. This ratio is the total number of students in a given group who have graduated or who are eligible to continue on clear or probationary status divided by the total transfers comprising the fall, 1981 group.

The study analyzes the relationship of differences betweeen pre-transfer and post-transfer GPA (change in mean institutional GPA) and the retention ratio of students from that institution two years after transfer. The Pearson product-moment correlation coefficient was utilized to test whether or not the observed correlation was significantly different from zero. Community colleges with fewer than five transfer students were grouped in this analysis. No individual institutional analyses are performed with four-year college transfers because these transfers are not identified by institution of last attendance in this study.

Limitations

The study describes, analyzes, and compares the academic progress and success of two groups of transfer students and a selected group of continuing native students similar in class level to the transfer groups. These three groups are not assumed to be "matched" in statistical terms. There is a difference of .15 in pre-transfer GPA for the transfer groups, while the mean GPA for the UIC native students (the control group) is below those GPA's for the two transfer groups. Even though comparisons are made among transfers from various institutions and types of institutions of previous attendance, this study is not intended to serve as a basis for inference about the independent

effect(s) of a specific institution or type of institution. The students who transferred from the various community colleges and four-year colleges are not matched on such significant variables as American College Test (ACT) composite score or high school percentile rank (HSPR). Native student data are reported as group data only. This study does, however, provide insight into individual and group performance by various sub-populations of students at UIC.

Related Studies

Studies conducted by the University Office of School and College Relations have traced the academic progress of community college transfers, senior college transfers, and continuing sophomores and juniors (natives) at the University of Illinois at Chicago for a number of years. These studies suggest that both transfer groups consistently experience some "transfer shock" followed by partial recovery, and the retention and graduation rates for the transfer groups remain below those of the natives.

While both transfer groups experience "transfer shock," community college transfers are more dramatically affected than those transferring from four-year institutions. As early as the 1966 junior college transfer report, a .60 drop in first term GPA was reported.[6] The 1973 community college transfer group experienced a decrease of .47,[7] and recently the degree of "transfer shock"

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[6]Ernest F. Anderson, "Success of Junior College Transfers at the University of Illinois at Chicago Circle, Fall, 1966." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 71-6, July, 1971, p. 14.

[7]Ernest F. Anderson and Stanley E. Henderson, "Four-Year Comparison of Transfer and Native Student Progress at the University of Illinois at Chicago Circle, Fall, 1973 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 79-1, March, 1979, p. 12.

increased slightly to .52 for the fall, 1980 community college group.[8] Transfers from four-year institutions, however, ranged from a drop of .11 (for the fall, 1979 group)[9] to an increase of .06 (for the fall, 1973 group),[10] while the natives went from a decrease of .01 for the 1973 group[11] to -.07 for the 1976 native group.[12]

Community college transfers generally enter with a GPA higher than either the four-year transfers or the natives and never fully recover to the level attained before transfer. For example, the fall, 1980 community college transfer group entered the University of Illinois at Chicago with a GPA of 3.82 as compared to a 3.66 for four-year transfers and natives.[13] At the end of the first term, the drop in GPA was .52 for community college transfers, .05 for four-year transfers, and .06 for natives. By the end of the second term after transfer, both the four-year transfers and the natives were achieving at or above their pre-transfer or lower division GPA. The community college group, however, never recovered more than half of the first term drop for the entire eight terms of the two-year study.[14] Although the two-year college

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[8] Ernest F. Anderson, Linda M. Heiser, and Beth Graue, "A Comparison of Transfer and Native Student Progress at the University of Illinois at Chicago, University Center, Fall, 1979 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 83-1, February, 1983, p. 12.

[9] Anderson and Henderson, Research Memorandum 79-1, p. 12.

[10] Ernest F. Anderson, Linda M. Heiser, and Trudy A. Campbell, "Two-Year Comparison of Transfer and Native Student Progress at the University of Illinois at Chicago-University Center, Fall, 1980 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 84-1, January, 1984, p. 13.

[11] Anderson and Henderson, Research Memorandum 79-1, p. 12.

[12] Ernest F. Anderson and Stanley E. Henderson, "Comparison of Transfer and Native Student Progress at the University of Illinois at Chicago Circle, Fall, 1976 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 78-3, March, 1978, p. 8.

[13] Anderson, Heiser, and Campbell, Research Memorandum 84-1, p. 13.

[14] Ibid., pp. 13-17.

transfers never fully recovered to their pre-transfer GPA, they did gradually approach achievement levels comparable to the four-year transfers and the natives.

The two transfer groups resemble each other to a greater degree than the native group with regard to graduation and retention rates. Graduation rates two years after transfer for the two-year group ranged from 14 percent for the fall, 1973 group to 7 percent for the fall, 1980 group, and the four-year transfers' graduation rates declined from 16 percent (fall, 1973) to 8 percent (fall, 1980). The natives graduated 45 and 43 percent for the same years.[15,16] These data show that graduation rates have consistently declined for the transfer groups and are approximately half what they were for the 1973 group, yet the native sample remains at approximately the same level as reported in 1973, at about 45 percent.

Retention rates have fluctuated over the past decade, but the community college and four-year transfers consistently retain at least 30 percent fewer students than the native group. Community college transfers have had two-year retention rates ranging from .47 to .34, while four-year transfers go from .44 to .40, with the natives reporting a high of .81 and a low of .76.[17]

Statistics compiled on beginning freshmen at Chicago provide another perspective in interpreting graduation and retention rates. The natives selected for the comparison studies may be expected to have high retention and

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[15]Anderson and Henderson, Research Memorandum 79-1, p. 29.

[16]Anderson, Heiser, and Campbell, Research Memorandum 84-1, p. 21.

[17]Anderson, Research Memorandum 71-6; Anderson and Henderson, Research Memorandum 79-1; Ernest F. Anderson and Linda M. Heiser, "A Comparison of Transfer and Native Student Progress at the University of Illinois at Chicago Circle, Fall, 1978 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 82-1, February, 1982, pp. 12-17; Anderson, Heiser, and Graue, Research Memorandum 83-1, pp. 12-16; Anderson, Heiser, and Campbell, Research Memorandum 84-1, pp. 13-17.

graduation rates, since those more likely to leave the university have been eliminated before their selection for the study. The statistics on beginning freshmen are more consistent with the transfer groups than the native samples for the studies. The transfer groups have graduation rates that have declined by one-half since the 1973 group and have retention rates at least 30 percent below the natives. Beginning freshmen also have relatively low retention rates. The 1972 beginning freshmen attained a graduation rate of approximately 18 percent four years after enrolling at Chicago. The rate had dropped to 8 percent for the fall, 1979 group. Furthermore, retention rates ranged from only 41 percent to 32 percent.[18] The achievement patterns of the transfers, then, may actually be parallel to those entering the University as freshmen, suggesting that achievement may be affected more by variables other than whether one is a transfer or native student at the time of first entry.

Although the Chicago and Urbana-Champaign campuses enroll populations with different characteristics, it is helpful to note trends in achievement for the Urbana-Champaign campus (UIUC). Like Chicago, UIUC transfer groups more nearly resemble each other than the natives with regard to graduation and retention rates. Two-year and four-year transfers differ in retention by 2 to 8 percent, while they differ by as much as 22 percent from the natives.[19] Graduation

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[18] Ira W. Langston, unpublished five-year retention data prepared for the University Office of School and College Relations, University of Illinois, Champaign.

[19] Ernest F. Anderson and Natalie Riehl, University Office of School and College Relations, University of Illinois, Champaign, "Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign, Fall, 1971 Group," Research Memorandum 74-9, June, 1974; Ernest F. Anderson, "Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign, Fall, 1972 Group," Research Memorandum 75-14, December, 1975; Ernest F. Anderson and Judith DeGray, "Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign, Fall, 1973 Group," Research Memorandum 76-8, July, 1976. (Footnote 19 continued on the following page.)

rates at the end of two years after transfer are also much higher (20%-38%) for the natives.[20] Retention and graduation rates are generally higher at UIUC than those reported for Chicago. At UIUC, the fall, 1980 transfer study reported retention rates of .79 for two-year transfers, .84 for the four-year group, and .90 for the natives at the end of two years. Graduation rates were .43, .46, and .70, respectively.[21] The UIC transfer study of UIC-UC for the same year reported retention rates of .38, .40, and .81, while graduation rates were only .07, .08, and .43.[22]

One can conclude from these studies that transfers to the University of Illinois generally do not achieve at the same level as they achieved before transfer or at the same level as the natives, but that achievement improves each term they are in attendance. State and national studies contrast with these findings, however.

A three-year follow-up study by Lach[23] of 10,504 fall, 1973 community college transfers to twenty-four Illinois four-year colleges and universities concluded that...

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[19](Con't.) Ernest F. Anderson and Philip G. Beers, "Two-Year Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign, Fall, 1977 Group," Research Memorandum 80-6, September, 1980; Ernest F. Anderson and Linda M. Heiser, "Two-Year Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign, Fall, 1978 Group," Research Memorandum 82-6, July, 1982; Ernest F. Anderson, Linda M. Heiser, and Trudy A. Campbell, "Two-Year Comparison of Transfer and Native Student Progress, University of Illinois at Urbana-Champaign, Fall, 1980 Group," Research Memorandum 84-2, February, 1984.

[20]Ibid.

[21]Anderson, Heiser, and Campbell, Research Memorandum 84-2, p. 14.

[22]Anderson, Heiser, and Campbell, Research Memorandum 84-1, p. 17.

[23]Ivan J. Lach, "Summary of the Statewide Follow-up Study of Community College Transfer Students in Illinois." Springfield: Illinois Community College Board, September 15, 1978, p. 1.

> "...during the first year the grade point average of the transfer students dropped from 2.8 (B on a 4 point scale) at the community college prior to transfer to 2.65 at the senior colleges. By the end of the second year, however, the grade point average of the transfer students at the senior institutions was back to a 2.8 average...
>
> "The results of this study indicate that Illinois public community college transfer students are performing well at the senior colleges. The large majority of students were able to remain enrolled at the senior institution and the overall grade point average of the transfer students at the four-year colleges and universities was a B average. At the end of three years, almost one-half of the students have completed the baccalaureate degree and another one-fourth of the students were still enrolled pursuing the four-year degree. Since a large number of students transferred prior to completing the associate degree at the community college and because many students are enrolled at the four-year colleges on a part-time basis, many more of these students are expected to complete the baccalaureate degree in another year."

These results reported in Lach's summary statement reflect the same findings as the 1965 national study by Knoell. The community college pre-transfer GPA (1965) was 2.57, followed by a 2.42 the first year, and a 2.68 the second year.[24]

Wermers,[25] in a comparison of transfer and native student achievement utilizing analysis of covariance to equate the groups, reported...

> "...that junior college transfer students rank lower than four-year transfer students and natives on ACT, HSPR, and SES. Junior college transfer students also scored lower than the four-year groups on standard scores achieved on the CLEP General Examination, the common criteria of achievement. Differences between natives and four-year transfers on ACT, HSPR, SES, and CLEP scores were not as clear.
>
> "Differences on mean CLEP scores among the groups diminished when the control variables were applied in the analysis of covariance

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[24] Dorothy M. Knoell and Leland L. Medsker, From Junior to Senior College: A National Study of the Transfer Student. Washington, D.C.: American Council on Education, 1965.

[25] Donald J. Wermers, "Achievement by Junior College Transfer, Four-Year College Transfer, and Native Juniors as Measured by the CLEP General Examinations." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 72-5, March, 1972, p. i.

> technique... . The results of this study seem to indicate that, generally, students who completed lower division requirements in junior colleges, and then transferred to the University of Illinois progressed academically during the first two years of college at a pace equivalent to students who completed lower division requirements in four-year institutions."
> [Note: ACT (American College Test); HSPR (High School Percentile Rank); SES (Socioeconomic Status); CLEP (College Level Examination Program).]

In summary, statewide and national reports suggest that community college transfers to senior colleges and universities achieve at approximately the same level after transfer as they did prior to transfer. In contrast, the studies of transfer students to the two campuses of the University of Illinois provide evidence which fails to support these findings insofar as these two campuses are concerned. This study of the fall, 1981 transfer group at Chicago provides additional data which may help explain the differing conclusions concerning achievement levels of transfer students.

II. FINDINGS

First Term Achievement

Table 1 presents a summary of transfer and native student progress for the eight-term period from fall, 1981 through summer, 1983. A detailed presentation and analysis of the 1981 fall term is presented in Appendix A for each community college from which five or more students transferred. Individual institutions are identified by confidential code.

The community college group of 1,078 transfers entered in the fall of 1981 with a pre-transfer grade point average of 3.82 (A=5.00). This group achieved a 3.47 mean first term GPA at UIC, which was .35 lower than this group's mean pre-transfer GPA. This drop in mean first term GPA is considerably lower than

TABLE 1

Summary of Transfer and Native Student Progress

University of Illinois at Chicago

Fall, 1981 Group

Term (1)	Two-Year Colleges (2)			Four-Year Colleges (3)			Continuing Sophomores & Juniors (4)		
Fall, 1981									
No. of Transfers	1078		100%	1289		100%	1368		100%
Mean Transfer GPA		3.82			3.67			3.65	
Mean 1st Term GPA		3.47			3.53			3.56	
Change in Mean GPA		-0.35			-0.14			-0.09	
Status:									
Graduated	1		0%*	8		1%	1		0%
Clear	728		68%	846		66%	1060		77%
Probation	236		22%	250		19%	242		18%
Dropped	45		4%	80		6%	28		2%
Withdrew	68		6%	105		8%	37		3%
Retention Ratio**	965	0.90		1104	0.86		1303	0.95	
Winter, 1982									
No. Re-enrolled	852		79%	949		74%	1258		92%
Mean Transfer GPA		3.84			3.70			3.68	
Mean 2nd Term GPA		3.46			3.63			3.63	
Change in Mean GPA		-0.38			-0.07			-0.05	
Increase Over 1st Term		-0.01			0.10			0.07	
Status:									
Graduated	0		0%	7		1%	3		0%
Clear	567		67%	635		67%	998		79%
Probation	210		25%	191		20%	195		16%
Dropped	32		4%	36		4%	23		2%
Withdrew	43		5%	80		8%	39		3%
Retention Ratio**	778	0.72		841	0.65		1197	0.88	

*0% includes 0-.99%

**Retention Ratio: The proportion of Fall, 1981 transfers which has graduated or completed the term on clear or probationary status.

TABLE 1 (Cont.)

Summary of Transfer and Native Student Progress

University of Illinois at Chicago

Fall, 1981 Group

Term (1)	Two-Year Colleges (2)			Four-Year Colleges (3)			Continuing Sophomores & Juniors (4)		
Spring, 1982									
No. of Transfers	739		69%	803		62%	1215		89%
Mean Transfer GPA		3.88			3.72			3.69	
Mean 3rd Term GPA		3.49			3.66			3.65	
Change in Mean GPA		-0.39			-0.06			-0.04	
Increase Over 2nd Term		0.03			0.03			0.02	
Status:									
Graduated	1		0%*	17		2%	58		5%
Clear	509		69%	550		68%	914		75%
Probation	157		21%	143		18%	207		17%
Dropped	40		5%	35		4%	21		2%
Withdrew	32		4%	58		7%	15		1%
Retention Ratio**	668	0.62		725	0.56		1183	0.86	
Summer, 1982									
No. Re-enrolled	262		24%	284		22%	572		42%
Mean Transfer GPA		3.92			3.74			3.66	
Mean 4th Term GPA		3.49			3.61			3.66	
Change in Mean GPA		-0.43			-0.13			0.00	
Increase Over 3rd Term		0.00			-0.05			0.01	
Status:									
Graduated	4		2%	9		3%	25		4%
Clear	172		66%	200		70%	407		71%
Probation	56		21%	43		15%	86		15%
Dropped	8		3%	7		2%	5		1%
Withdrew	22		8%	25		9%	49		9%
Retention Ratio**	234	0.22		284	0.22		580	0.42	

*0% includes 0-.99%

**Retention Ratio: The proportion of Fall, 1981 transfers which has graduated or completed the term on clear or probationary status.

TABLE 1 (Cont.)

Summary of Transfer and Native Student Progress

University of Illinois at Chicago

Fall, 1981 Group

Term (1)	Two-Year Colleges (2)			Four-Year Colleges (3)			Continuing Sophomores & Juniors (4)		
Fall, 1982									
No. of Transfers	573		53%	632		49%	1067		78%
Mean Transfer GPA		3.90			3.72			3.68	
Mean 5th Term GPA		3.55			3.63			3.59	
Change in Mean GPA		-0.35			-0.09			-0.09	
Increase Over 4th Term		0.06			0.02			-0.07	
Status:									
Graduated	2		0%*	15		2%	81		8%
Clear	424		74%	448		71%	767		72%
Probation	95		17%	107		17%	173		16%
Dropped	34		6%	20		3%	21		2%
Withdrew	18		3%	42		7%	25		2%
Retention Ratio**	527	0.49		611	0.47		1108	0.81	
Winter, 1983									
No. Re-enrolled	511		47%	548		43%	946		69%
Mean Transfer GPA		3.92			3.71			3.67	
Mean 6th Term GPA		3.64			3.55			3.61	
Change in Mean GPA		-0.28			-0.16			-0.06	
Increase Over 5th Term		0.09			-0.08			0.02	
Status:									
Graduated	8		2%	13		2%	82		9%
Clear	399		78%	389		71%	666		70%
Probation	84		16%	106		19%	158		17%
Dropped	13		3%	19		3%	18		2%
Withdrew	7		1%	21		4%	22		2%
Retention Ratio**	499	0.46		564	0.44		1074	0.79	

*0% includes 0-.99%.

**Retention Ratio: The proportion of Fall, 1981 transfers which has graduated or completed the term on clear or probationary status.

TABLE 1 (Cont.)

Summary of Transfer and Native Student Progress

University of Illinois at Chicago

Fall, 1981 Group

Term (1)	Two-Year Colleges (2)			Four-Year Colleges (3)			Continuing Sophomores & Juniors (4)		
Spring, 1983									
No. of Transfers	474		44%	491		38%	813		59%
Mean Transfer GPA		3.93			3.72			3.68	
Mean 7th Term GPA		3.70			3.68			3.71	
Change in Mean GPA		-0.23			-0.04			0.03	
Increase Over 6th Term		0.06			0.13			0.10	
Status:									
Graduated	49		10%	42		9%	259		32%
Clear	342		72%	327		67%	411		51%
Probation	58		12%	80		16%	102		13%
Dropped	14		3%	16		3%	18		2%
Withdrew	11		2%	26		5%	23		3%
Retention Ratio**	465	0.43		518	0.40		1022	0.75	
Summer, 1983									
No. Re-enrolled	202		19%	207		16%	305		22%
Mean Transfer GPA		3.92			3.78			3.54	
Mean 8th Term GPA		3.60			3.51			3.50	
Change in Mean GPA		-0.32			-0.27			-0.04	
Increase Over 7th Term		-0.10			-0.17			-0.21	
Status:									
Graduated	14		7%	9		4%	44		14%
Clear	148		73%	138		67%	178		58%
Probation	24		12%	35		17%	48		16%
Dropped	5		2%	4		2%	6		2%
Withdrew	11		5%	21		10%	29		10%
Retention Ratio**	251	0.23		293	0.23		779	0.57	

**Retention Ratio: The proportion of Fall, 1981 transfers which has graduated or completed the term on clear or probationary status.

TABLE 1 (Cont.)

Summary of Transfer and Native Student Progress

University of Illinois at Chicago

Fall, 1981 Group

Term (1)	Two-Year Colleges (2)		Four-Year Colleges (3)		Continuing Sophomores & Juniors (4)		
Summary							
Graduated	79	7%	120	9%	553		40%
Clear	325	30%	311	24%	411	***	30%
Probation	51	5%	88	7%	102	***	7%
Dropped	164	15%	153	12%	NA		
Withdrew	177	16%	236	18%	NA		
Left on Clear	170	16%	265	21%	NA		23%
Left on Probation	112	10%	116	9%	NA		
Total	1078	100%	1289	100%	1368		100%
Retention Ratio**	455	0.42	519	0.40	1066	0.78	

**Retention Ratio: The proportion of Fall, 1981 transfers which has graduated or completed the term on clear or probationary status.

***Estimated figures based on term seven.

NA-Cumulative figures not available. Dropped, withdrew, left on clear, and left on probation figures total 23% of Fall, 1981 natives.

previous community college transfer groups (-.62 for fall, 1966; -.59 for fall, 1979; -.52 for fall, 1980; -.49 for fall, 1976, and .-48 for fall, 1978.)[26]

A total of 1,289 four-year college transfers entered UIC in the fall of 1981 with a mean pre-transfer grade point average of 3.67. This group achieved a mean first term GPA of 3.53, a decrease of .14 from the group's mean pre-transfer GPA.

The mean pre-transfer GPA's and the mean UIC GPA's for the three study groups are illustrated in Figure I for each of the eight terms. Comparison of the three groups in Figure I shows that community college transfers entered with a mean pre-transfer GPA somewhat higher than the continuing sophomores and juniors, and the four-year college transfers; the community college transfers' first term UIC performance, however, was approximately .35 lower than their previous achievement, .06 lower than the four-year college transfers' first term UIC GPA, and .09 lower than the natives' fall, 1981 UIC grade point average.

Further analysis of variation in group performance for the fall, 1981 term shows that there was a greater proportion of transfers placed on probation or dropped at the conclusion of the term than was the case for the native group. Table 1 reports that approximately one-fourth of the community college group were either on probation (22%) or dropped (4%), and the comparable figures for four-year college transfers were 19 percent on probation and 6 percent dropped. The proportions were lower for natives, at 18 percent and 2 percent, respectively.

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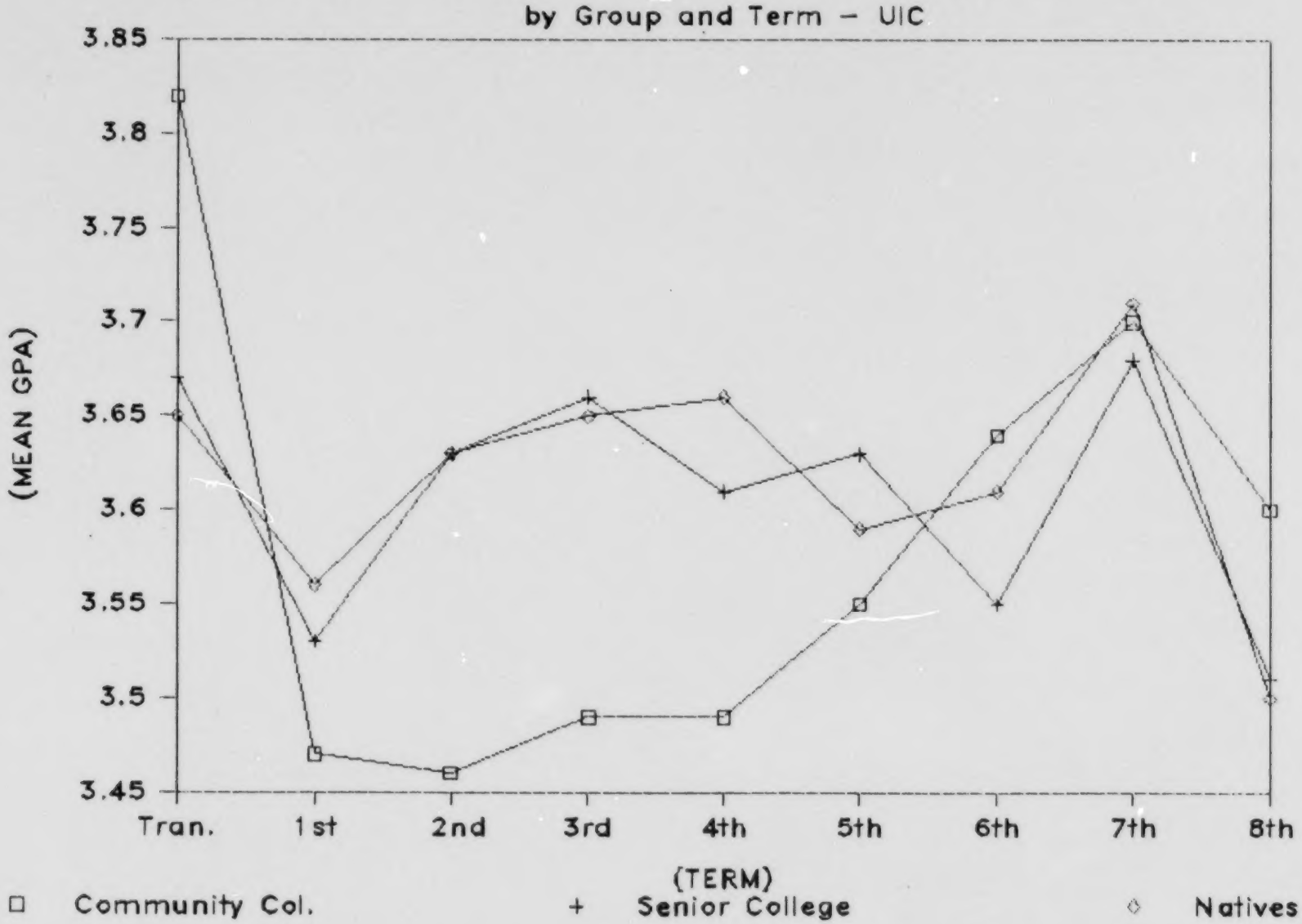
[26] Anderson and Henderson, Research Memorandum 78-3, p. 8; Anderson and Heiser, Research Memorandum 82-1, p. 13; Anderson, Research Memorandum 71-6, p. 14; Anderson, Heiser, and Graue, Research Memorandum 83-1, p. 12; Anderson, Heiser, and Campbell, Research Memorandum 84-1, p. 13.

Figure I: Transfer and Native GPA'S



Another way of comparing the three groups of students is by observing their retention. The retention ratio is calculated by summing the number of community college transfers who have graduated and those who remain enrolled, either on clear or probation, at the end of a term, then dividing that sum by the total number of community college transfers in the original 1981 fall group. This analysis was used for the two transfer groups and the continuing sophomores and juniors. For example, the retention ratio (RR) for the community college group after the 1981 fall term is calculated as shown below:

$$\text{Retention Ratio: } (RR) = \frac{\text{Graduates (G) + Clear (C) + Probation (P)}}{\text{Fall, 1981 Population (N)}}$$

$$RR_1 = \frac{G_1 + C_1 + P_1}{N_1}$$

$$RR_1 = \frac{1 + 728 + 236}{1{,}078}$$

$$RR_1 = \frac{965}{1{,}078}$$

$$RR_1 = .90$$

Retention rates for fall term, 1981 were .90 for the community college group, .86 for the four-year college group, and .95 for the continuing sophomores and juniors (natives). A comparison of fall, 1981 retention ratios with winter, 1982 re-enrollment percentages reveals that even though 90 percent of the community college group were eligible to return for the winter term, only 79 percent actually re-enrolled, which was an additional loss of 11 percent of the original community college population. The four-year college group lost 12 percent of the group between the fall and winter terms due to

failure to re-enroll. Three percent of the natives who were eligible to re-enroll failed to do so.

As demonstrated by previous studies, and substantiated by data for the 1981 fall term, a substantial drop in first term GPA from approximately .3 to .6 occurs consistently for community college transfers at UIC. An analysis of factors influencing this drop is not readily available, although the phenomenon (which has been termed "transfer shock") may be the result of difficulties in adjustment to the university environment. As in the past, a greater difference between achievement of community college transfers and the other two groups is greater during the first term than in any of the other terms reported in the studies. The fall, 1981 community college transfers, however, experienced an increasing difference in achievement from the other two groups during the first year after transfer. By the seventh term, though, all three groups were achieving at approximately the same level, but approximately 60 percent of the transfers and 40 percent of the natives had withdrawn, left, or been dropped from the University.

The cumulative numbers and ratio of graduates, along with the retention ratios, are presented in Table 2 for each group in each of the eight terms and are illustrated in Figures IIA, IIB, and IIC. The information presented in Table 2 and illustrated in these three figures demonstrate that the natives graduate or continue on clear or probationary status at a higher rate than the transfers.

Achievement One Year After Transfer

Three terms after transfer, the 739 community college transfers who re-enrolled achieved a mean GPA of 3.49, which was a decrease (-.39) when compared with the group's mean pre-transfer GPA. Less than 1 percent of the original community college group had graduated; 69 percent and 21 percent,

TABLE 2

Number of Graduates, Cumulative Graduation Ratio, and Cumulative Retention Ratio by Term and Type of Institution of Last Attendance

University of Illinois at Chicago

Fall, 1981 Group

	Two-Year College Transfers				Four-Year College Transfers				Continuing Soph. & Jrs.			
			Cumulative				Cumulative				Cumulative	
Term (1)	No. (2)	Cum. No. (3)	Grad. Ratio (4)	Reten. Ratio (5)	No. (6)	Cum. No. (7)	Grad. Ratio (8)	Reten. Ratio (9)	No. (10)	Cum. No. (11)	Grad. Ratio (12)	Reten. Ratio (13)
1	1	1	.00*	0.90	8	8	0.01	0.86	1	1	.00	0.95
2	0	1	.00	0.72	7	15	0.01	0.65	3	4	.00	0.88
3	1	2	.00	0.62	17	32	0.02	0.56	58	62	0.05	0.86
4	4	6	0.01	0.22**	9	41	0.03	0.22**	25	87	0.06	0.42**
5	2	8	0.01	0.49	15	56	0.04	0.47	81	168	0.12	0.81
6	8	16	0.01	0.46	13	69	0.05	0.44	82	250	0.18	0.79
7	49	65	0.06	0.43	42	111	0.09	0.40	259	509	0.37	0.75
8	14	79	0.07	0.23**	9	120	0.09	0.23**	44	553	0.40	0.57**
Total Transfers		1078				1289				1368		

*.00 includes any number less than .01.
**Summer Session.

FIGURE IIA: COMMUNITY COL. RETENTION

AND GRAD. RATIOS BY TERM – UIC

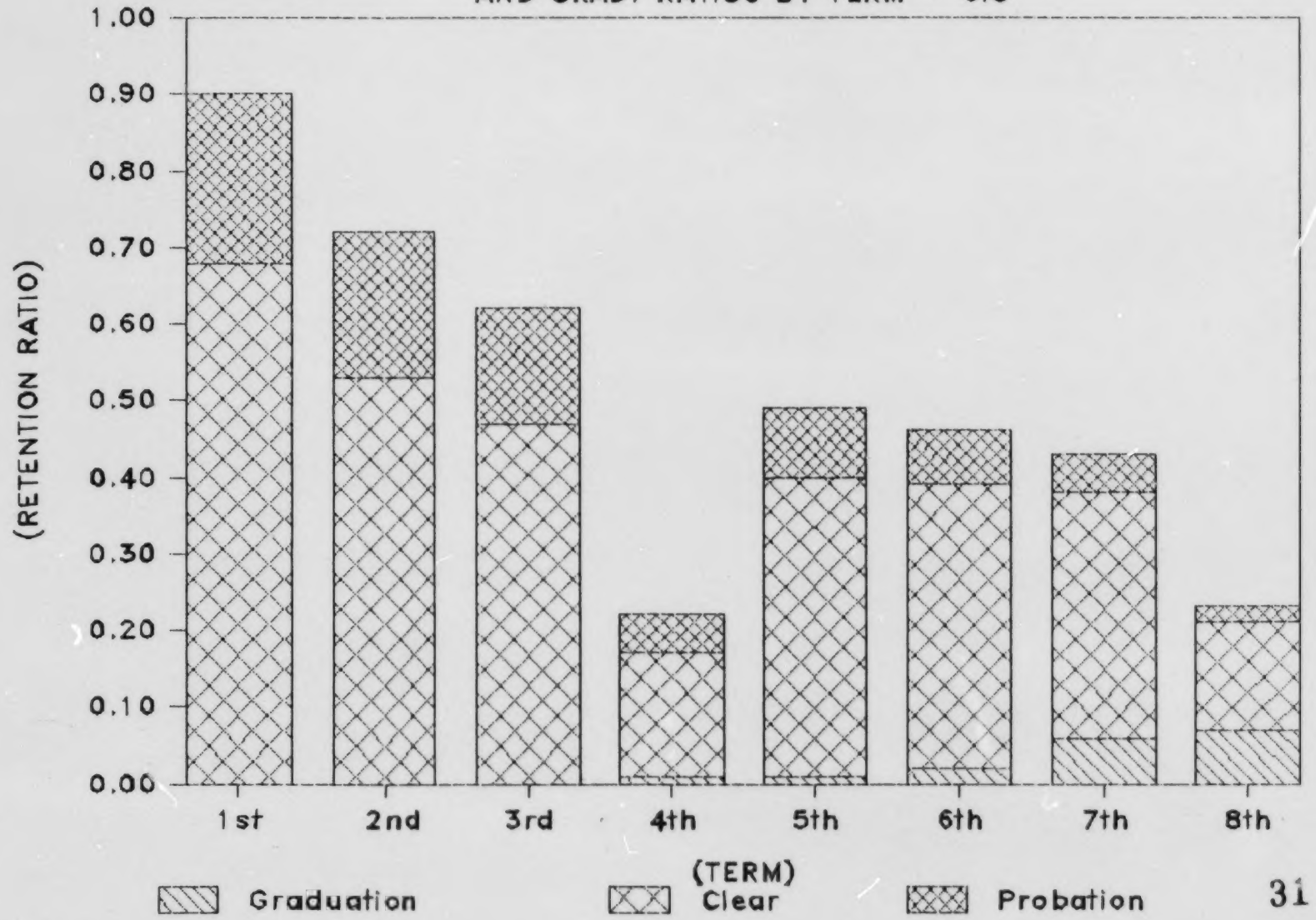


FIGURE IIB: SENIOR COLLEGE RETENTION

AND GRAD. RATIOS BY TERM – UIC

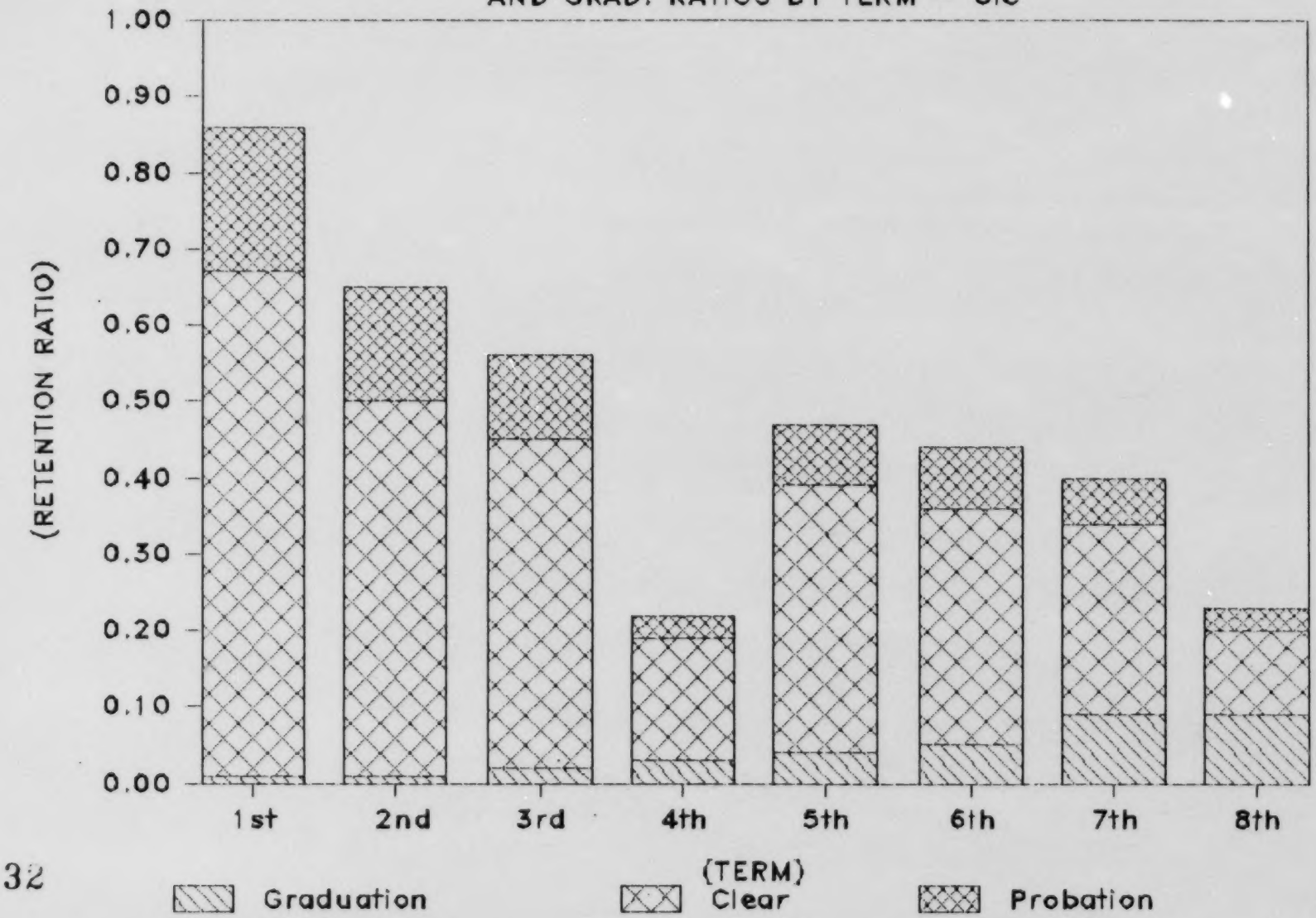
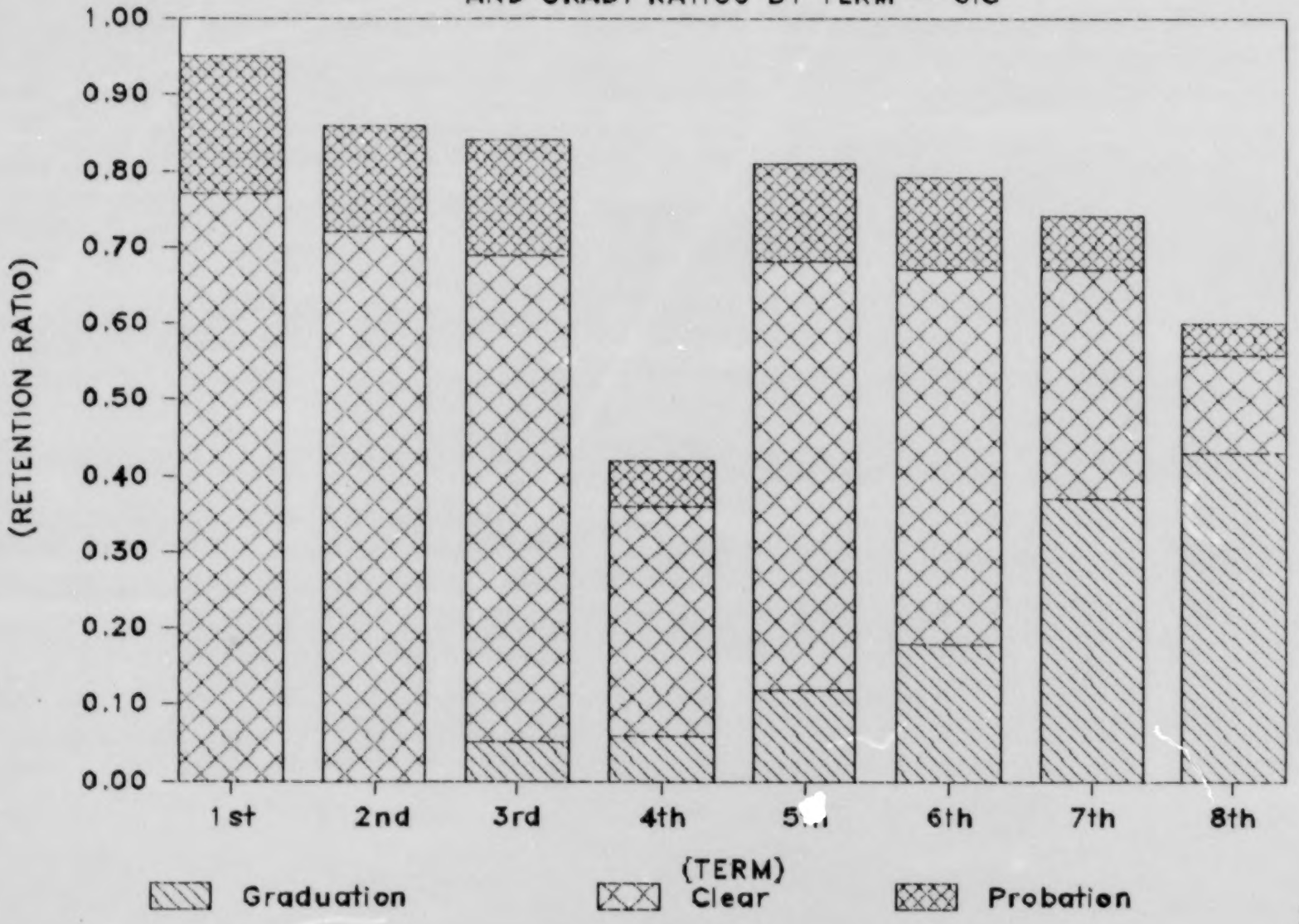


FIGURE IIC: NATIVE STUDENT RETENTION

AND GRAD. RATIOS BY TERM – UIC



respectively, were continuing on clear or probationary status. Of the students in the original 1981 fall group, 11 percent had been dropped, 13 percent officially withdrew (during a term) and never returned, 9 percent left on clear status, and 6 percent left on probationary status. A total of 668 community college transfers had either graduated or completed the 1982 spring term on clear or probationary status, which resulted in a retention ratio of .62 for the group.

The four-year college group consisted of 803 students enrolled for the third term. This group achieved a mean term GPA of 3.66, which was .03 greater than their mean second term GPA and was .06 less than their pre-transfer GPA. Of the original four-year college group, 2 percent had graduated, 68 percent were on clear status, and 18 percent were on probationary status. Twelve percent of the total four-year college group had been dropped, 19 percent withdrew, 14 percent left on clear, and 6 percent left on probation.

The native sophomores and juniors who re-enrolled for the third term (1,215 students) achieved a mean term GPA of 3.65, which was an increase of .02 when compared to the group's mean second term GPA, and was the same as the group's UIC GPA before fall, 1981. At the end of three terms, 5 percent of the natives had graduated, 82 percent were on continuing status (clear or probation), 5 percent were dropped, and 7 percent withdrew; the numbers of continuing sophomores and juniors who chose to leave between terms were not available. The retention ratio of the continuing natives was .86 (see Appendix C).

This study demonstrates that community college transfers continue to experience a substantial drop in GPA during their first term after transfer, although the drop is not as great as in previous years (from .62 in 1966 to .35 in 1981). Historically, partial recovery occurred over the next two terms.

The fall, 1981 group, however, did not begin recovery until the second year (fifth term). Figure I illustrates that the senior college and native groups begin with similar GPA's at UIC and that only the natives and four-year transfers continue to achieve at a GPA level similar to the one they had attained during their previous college work. This is in contrast to the two transfer groups studied at Urbana-Champaign. These groups also have a major drop in GPA during the first term, but they normally recover approximately one-third to one-half of the drop in GPA by the end of the spring term after transfer.

Data from previous studies supported the hypothesis that some of the "transfer shock" (first term drop in GPA), followed by a partial recovery during the second and third terms by the continuing community college group, may be explained by the absence of the "leavers" who were dropped or left on probation during the first term. This is not true for the 1981 transfers. The fall, 1981 community college group did not experience "transfer shock" to the same degree as previous groups and did not begin recovery until the fifth term at UIC, followed by a more gradual recovery later. This may be explained by a change in admissions procedure. Enforcing earlier cutoff for transfer admission may have encouraged attendance of those less prone to withdraw. As in previous years, four-year college transfers were affected by "transfer shock," but to a lesser degree as noted by comparing pre-transfer GPA with UIC first term GPA and by noting gains in mean GPA the second and third term after transfer.

Fifth Term Achievement

Fifty-three percent of the community college group and 49 percent of the four-year college group re-enrolled for the 1982 fall term, while 78 percent of

the native group re-enrolled for the fall term. The community college transfer group achieved a UIC fall term GPA of 3.55, which is .35 less than that group achieved before transfer. The four-year college transfer group and the natives achieved GPA's slightly lower (.09) than their pre-transfer and lower division work. The enrolled community college transfer group's GPA continued to be lower than the four-year transfer group and natives' GPA (.08 and .04).

The retention ratios for the community college transfers (.49) and four-year college transfers (.47) were similar at the end of the fifth term, and the natives had a higher retention ratio of .81. Approximately 15 percent of the community college transfer group had been dropped by the end of the fall term, while 14 percent of the four-year college transfer and 7 percent of the natives had been dropped. The data for the individual community colleges with five or more transfers are presented in Appendix D for the 1982 fall term. These data show that the retention ratios range from a low of .04 to a high of .83 for individual colleges.

Achievement and Status Two Years After Transfer

This study demonstrates that the 1,078 community and junior college transfers entered with 3.82 transfer GPA and experienced a substantial drop (.35) in GPA during the first term after transfer, and the remaining students gradually recovered to a point about .23 below that group's (N = 474) pre-transfer GPA (3.93), but never fully recovered (Figure III). Both the four-year college transfers and the natives experienced a small drop in their GPA's during the first term (.14 and .09), but both groups were able to recover. By the end of the spring, 1983 term, the four-year group increased its GPA by .01 over the group's original GPA (Figure IV) and the natives increased their GPA by .06 over the lower division GPA of 3.65 (Figure V).

Figure III: Community College Transfer

and UIC GPA's by Term

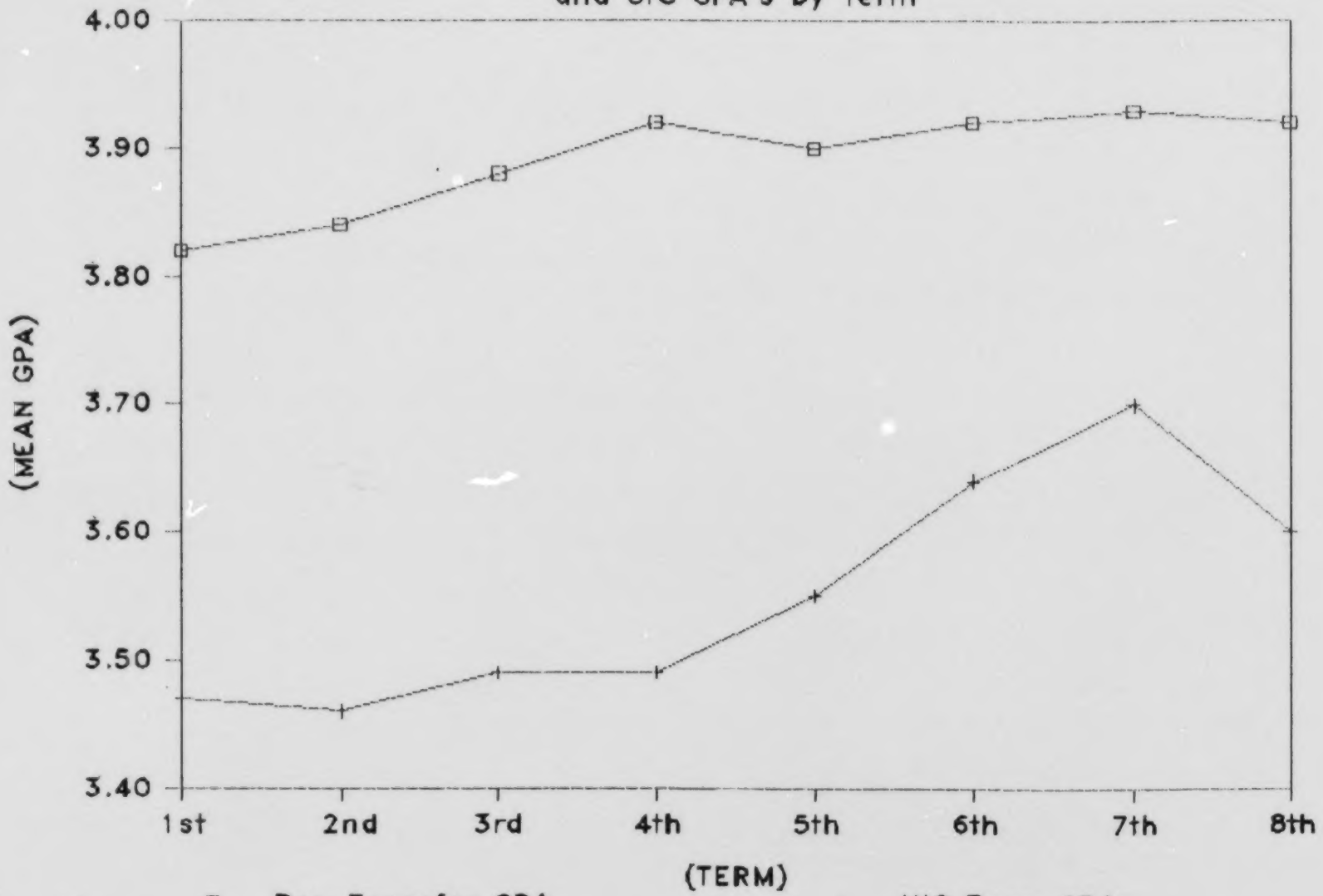


Figure IV: Senior College Transfer

and UIC GPA's by Term

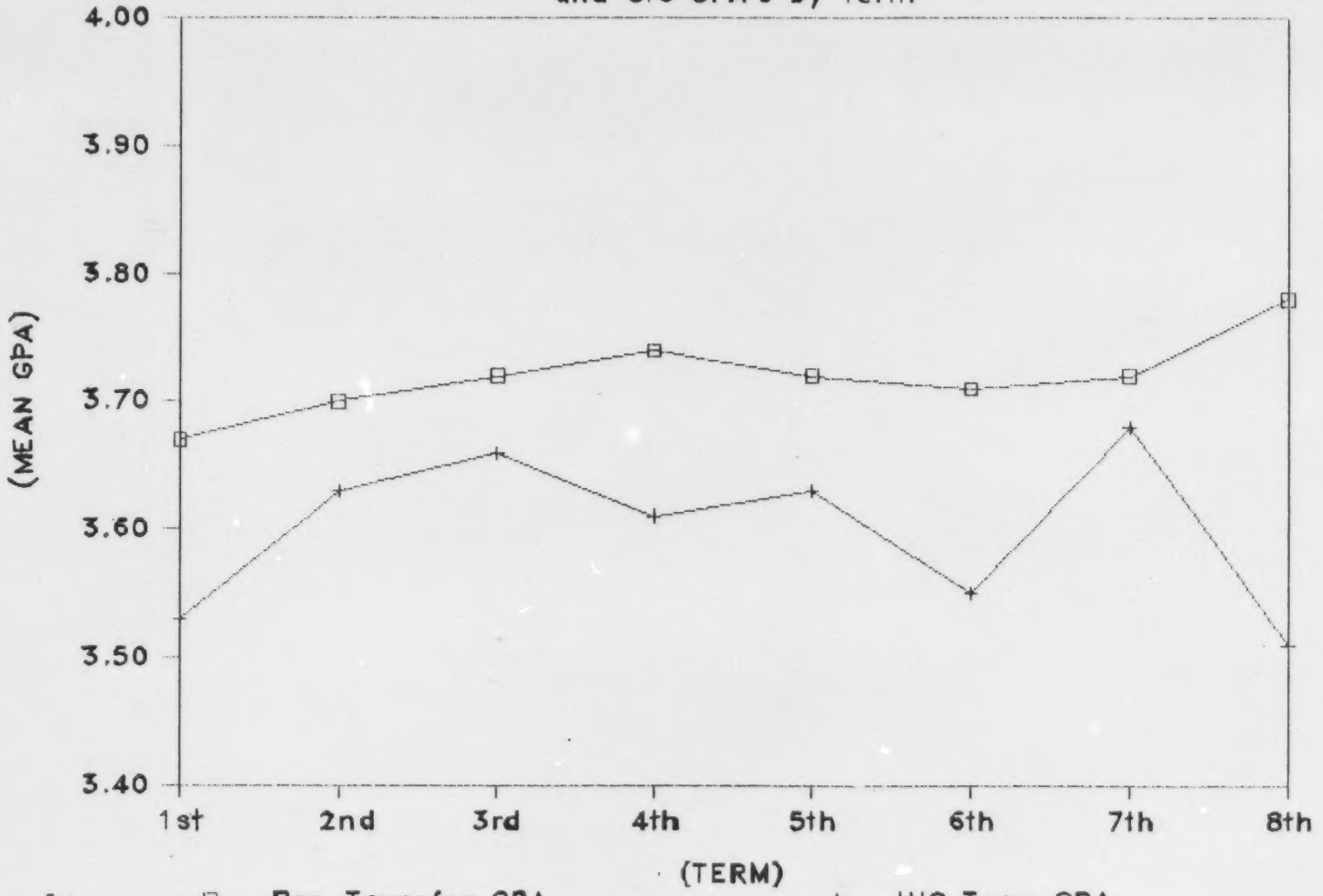
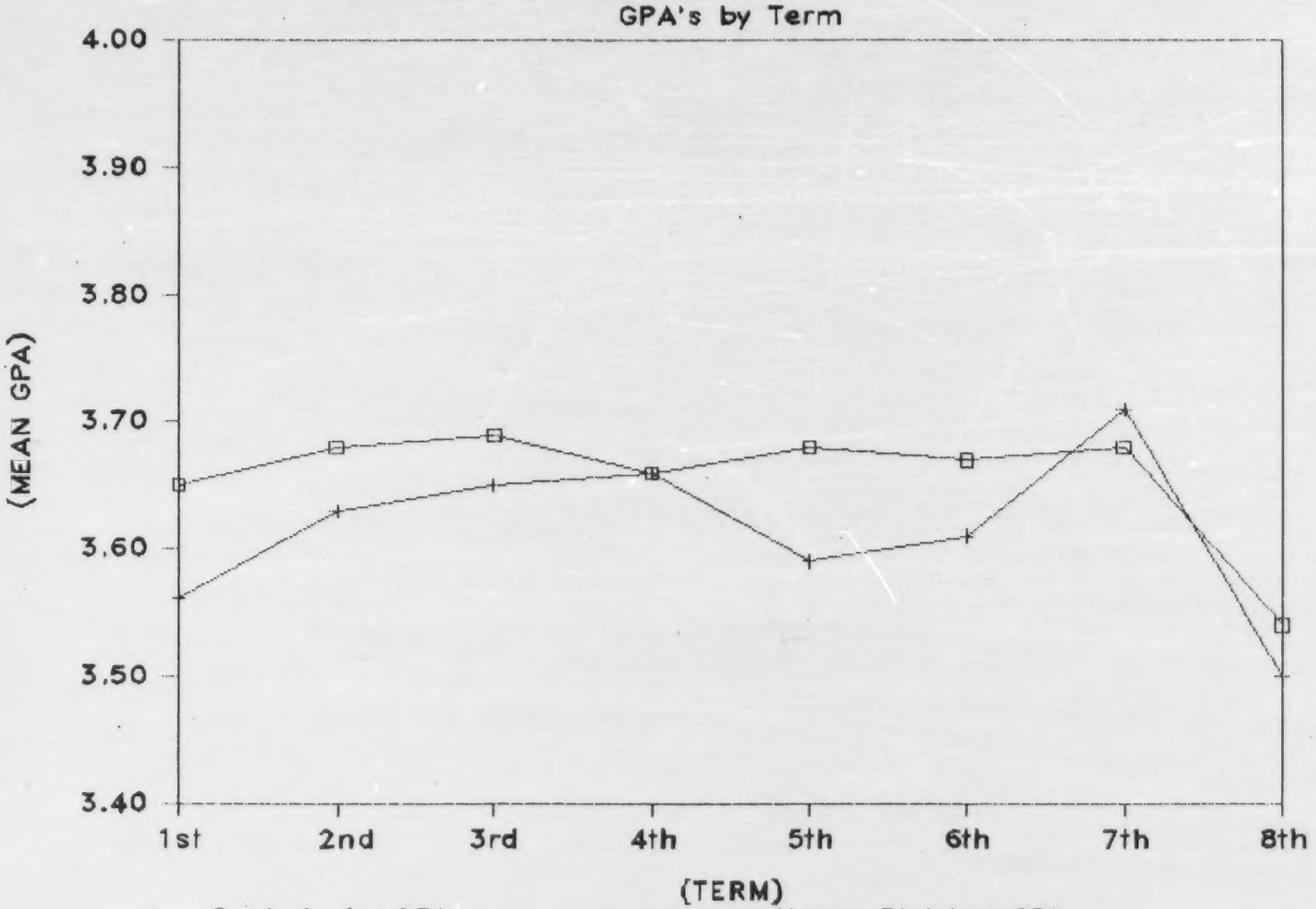


Figure V: UIC Native Student



Approximately two out of five (40%) of the natives, 9 percent of the four-year college transfers, and 7 percent of the community college transfers graduated during the two-year period covered by this study. While it is not surprising that one-half of the natives who have successfully completed 45 to 134 quarter hours (sophomores and juniors) graduated during the two years of study, it is discouraging that only 9 percent of the four-year college transfers graduated and only 7 percent of the community college transfers graduated during this period.

The proportion of transfer students who left UIC because they were either dropped or were on probation obviously contributed significantly to this low graduation and retention rate. Approximately one out of seven community college transfers was dropped for academic reasons and never re-enrolled, and an additional 10 percent left UIC on probation and never re-enrolled. This means that slightly more than one out of four community college transfers left UIC and did not return following academic difficulty.

A smaller proportion of the four-year college transfers were dropped (12%) and never re-enrolled, and a similar proportion of this group left on probation (9%) for a total of 21 percent who left UIC and did not return following academic difficulty. Comparable figures are not directly available for the natives, but a combination of those who dropped, withdrew, left on probation, and left on clear totaled only 23 percent, while the community college transfers totaled 57 percent and the four-year college transfers totaled 60 percent. Although the proportion of those leaving on clear is not available, it is still possible to conclude that slightly more than two times as many community college transfer students and four-year college transfers, in comparison with native sophomores and juniors, leave because of academic difficulty.

Comparison by Subject Area

Data on transfer and native student grade point averages at UIC in each of ten subject areas for the eight terms included in this study are presented in Table 3. The community college group, the four-year group, and the natives were each assigned a performance rank in each of the ten subject areas based upon the mean UIC GPA for each term.

This rank-ordering procedure revealed that community college transfers ranked first, or highest, in four of the ten subject areas for the 1981 fall term. The continuing sophomores and juniors achieved the highest GPA in three of the ten subject areas. The performance of the four-year group more closely resembled that of the continuing sophomores and juniors than that of the community college group. Although the two-year group ranked first in four of the subject areas (English and humanities, math, physical sciences, and engineering), continuing sophomores and juniors ranked first in the overall course average with a GPA of 3.56, four-year college transfers and the natives ranked second and third with GPA's of 3.53 and 3.47, respectively.

Community college transfers encountered more difficulty in the subject areas of business administration (GPA = 3.45), foreign language (GPA = 3.39), math (GPA = 3.38), and biological sciences (GPA = 3.10) than in other areas. Performance in each of these subject areas was below the community college group's average for all courses (3.47). Community college transfers were well above their overall average for all courses in the subject areas of English and humanities (GPA = 3.97), architecture and art (GPA = 3.99), and education (GPA = 4.17).

Similar analyses for the second and third term show that community college transfers received the lowest mean UIC term GPA for almost all of the ten

TABLE 3
Comparison of Transfer and Native Student Academic Achievement by Subject Area
University of Illinois at Chicago
Fall, 1981 Group

Subject Area (1)	Two-Year Transfers Mean GPA (2)	Two-Year Transfers Rank (3)	Four-Year Transfers Mean GPA (4)	Four-Year Transfers Rank (5)	Continuing Sophomores and Juniors Mean GPA (6)	Continuing Sophomores and Juniors Rank (7)
Fall, 1981 (Term 1)						
Biological Sciences	3.10	3	3.37	1	3.30	2
Business Admin.	3.45	2	3.43	3	3.52	1
English & Humanities	3.97	1	3.78	3	3.96	2
Foreign Language	3.39	3	3.62	1	3.61	2
Math	3.38	1	3.34	3	3.35	2
Physical Sciences	3.58	1	3.49	2	3.48	3
Social Sciences	3.51	3	3.62	2	3.79	1
Engineering	3.60	1	3.45	3	3.49	2
Architecture & Art	3.99	3	4.15	1	4.05	2
Education	4.17	3	4.24	2	4.35	1
All Courses	3.47	3	3.53	2	3.56	1
Winter, 1982 (Term 2)						
Biological Sciences	3.00	3	3.45	1	3.32	2
Business Admin.	3.47	3	3.69	1	3.53	2
English & Humanities	3.55	3	3.88	1	3.77	2
Foreign Language	3.57	3	3.72	1	3.67	2
Math	3.38	3	3.48	1	3.47	2
Physical Sciences	3.62	2	3.68	1	3.54	3
Social Sciences	3.58	3	3.72	2	3.87	1
Engineering	3.25	3	3.36	2	3.53	1
Architecture & Art	3.69	3	3.92	2	4.05	1
Education	4.14	3	4.19	2	4.33	1
All Courses	3.46	3	3.63	1.5	3.63	1.5
Spring, 1982 (Term 3)						
Biological Sciences	3.44	1	3.26	3	3.42	2
Business Admin.	3.47	2	3.54	1	3.45	3
English & Humanities	3.82	3	3.84	1.5	3.84	1.5
Foreign Language	3.78	2	3.86	1	3.68	3
Math	3.34	3	3.53	1	3.36	2
Physical Sciences	3.47	3	3.63	1	3.51	2
Social Sciences	3.61	3	3.80	2	3.89	1
Engineering	3.17	3	3.23	2	3.63	1
Architecture & Art	3.78	3	4.06	2	4.19	1
Education	4.11	3	4.29	2	4.38	1
All Courses	3.49	3	3.66	1	3.65	2

TABLE 3 (Cont.)
Comparison of Transfer and Native Student Academic Achievement by Subject Area
University of Illinois at Chicago
Fall, 1981 Group

Subject Area (1)	Two-Year Transfers Mean GPA (2)	Two-Year Transfers Rank (3)	Four-Year Transfers Mean GPA (4)	Four-Year Transfers Rank (5)	Continuing Sophomores and Juniors Mean GPA (6)	Continuing Sophomores and Juniors Rank (7)
Summer, 1982 (Term 4)						
Biological Sciences	3.36	3	3.42	2	3.46	1
Business Admin.	3.25	3	3.42	2	3.56	1
English & Humanities	4.56	1	4.08	3	4.18	2
Foreign Language	4.33	1	3.17	3	3.67	2
Math	3.31	2	3.38	1	3.30	3
Physical Sciences	3.37	3	3.66	1	3.55	2
Social Sciences	3.77	3	3.90	2	4.10	1
Engineering	3.57	2.5	3.58	1	3.57	2.5
Architecture & Art	3.81	2	3.89	1	3.71	3
Education	4.44	2	4.13	3	4.46	1
All Courses	3.49	3	3.61	2	3.66	1
Fall, 1982 (Term 5)						
Biological Sciences	3.46	2	3.68	1	3.18	3
Business Admin.	3.56	1	3.54	2	3.51	3
English & Humanities	4.00	2	4.10	1	3.98	3
Foreign Language	3.63	2	3.57	3	3.79	1
Math	3.26	3	3.27	2	3.38	1
Physical Sciences	3.45	3	3.53	1	3.49	2
Social Sciences	3.66	2.5	3.66	2.5	3.85	1
Engineering	3.51	2	3.40	3	3.53	1
Architecture & Art	3.80	3	4.07	1	4.00	2
Education	3.90	3	4.21	2	4.35	1
All Courses	3.55	3	3.63	1	3.59	2
Winter, 1983 (Term 6)						
Biological Sciences	3.81	1	3.38	2	3.16	3
Business Admin.	3.60	1	3.54	3	3.57	2
English & Humanities	4.00	1.5	4.00	1.5	3.70	3
Foreign Language	3.77	2	3.50	3	3.84	1
Math	3.26	2	3.00	3	3.29	1
Physical Sciences	3.61	1	3.51	3	3.59	2
Social Sciences	3.69	3	3.77	2	3.86	1
Engineering	3.62	1	3.54	3	3.56	2
Architecture & Art	3.75	3	4.13	1	3.97	2
Education	4.33	2	4.21	3	4.57	1
All Courses	3.64	1	3.55	3	3.61	2

TABLE 3 (Cont.)
Comparison of Transfer and Native Student Academic Achievement by Subject Area
University of Illinois at Chicago
Fall, 1981 Group

Subject Area (1)	Two-Year Transfers Mean GPA (2)	Two-Year Transfers Rank (3)	Four-Year Transfers Mean GPA (4)	Four-Year Transfers Rank (5)	Continuing Sophomores and Juniors Mean GPA (6)	Continuing Sophomores and Juniors Rank (7)
Spring, 1983 (Term 7)						
Biological Sciences	3.56	2	3.60	1	3.39	3
Business Admin.	3.72	1	3.38	3	3.65	2
English & Humanities	4.03	1	4.00	2	3.89	3
Foreign Language	3.57	3	3.59	2	3.66	1
Math	3.37	2	3.40	1	3.17	3
Physical Sciences	3.60	2	3.64	1	3.48	3
Social Sciences	3.89	1	3.79	3	3.86	2
Engineering	3.75	3	4.25	1	4.20	2
Architecture & Art	3.97	3	4.12	1	4.10	2
Education	4.22	3	4.45	2	4.51	1
All Courses	3.70	2	3.68	3	3.71	1
Summer, 1983 (Term 8)						
Biological Sciences	3.56	1	2.86	3	3.53	2
Business Admin.	3.48	1	3.41	3	3.47	2
English & Humanities	4.33	1	4.13	2	4.00	3
Foreign Language	3.86	1	3.21	2	2.57	3
Math	3.52	2	3.55	1	3.22	3
Physical Sciences	3.07	3	3.28	2	3.40	1
Social Sciences	3.97	1	3.80	2.5	3.80	2.5
Engineering	3.75	1	1.00	2	NA	-
Architecture & Art	3.27	3	4.57	1	3.50	2
Education	4.24	2	3.47	3	4.31	1
All Courses	3.60	1	3.51	2	3.50	3

subject areas. Natives and four-year college transfers were very similar to each other in achievement and number of areas in which they ranked first or second in achievement in the ten subject areas studied. Community college transfers continued to achieve below average GPA's in biological sciences and math, while achieving at higher levels in education, architecture and art, English and humanities, and social sciences, for the second and third terms. By the end of the 1983 spring term, community college transfers ranked second for the mean UIC term GPA for all courses, while natives ranked first and four-year college transfers achieved the lowest mean GPA (3.68).

Institutional Differences

A summary of community college transfer student progress by institution of last attendance is presented in Table 4 for those Illinois community or junior colleges sending five or more transfer students to the University of Illinois at Chicago for the 1981 fall term. These data are accompanied by comparable group data for four-year college transfers and continuing natives. Community colleges which sent five or more transfers were assigned a confidential code number, which is shown in column one; these code numbers do not correspond to code numbers assigned to institutions by the University Office of School and College Relations.[27] The number of students who initially entered the 1981 fall term and each group's mean pre-transfer GPA are shown in Columns 2 and 3, respectively. Column 4 shows the mean UIC first term grade point average for the students from each community college which has been coded, and Column 5

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[27]Ernest F. Anderson, "Institution Codes for Identification of Institutions of Last Attendance for Transfer Students, January 31, 1981." Champaign: University Office of School and College Relations, University of Illinois, 1981.

TABLE 4

Summary of Community College Transfer Student Progress by Institution of Last Attendance
University of Illinois at Chicago
Fall, 1981 Group

Conf. Inst. Code (1)	No. Fall 1980 Trans. (2)	Pre-Trans. GPA (3)	Mean 1st Term GPA (4)	Change in Mean 1st Term GPA (5)	Academic Status After Eight Terms: Grad. No. (6)	Grad. % (7)	Clear No. (8)	Clear % (9)	Pro. No. (10)	Pro. % (11)	Dropped No. (12)	Dropped % (13)	Withdrawn No. (14)	Withdrawn % (15)	Left on Clear No. (16)	Left on Clear % (17)	Left on Pro. No. (18)	Left on Pro. % (19)	** Retention Ratio (20)
01*	16	3.62	3.16	-0.46	0	0%	5	31%	1	6%	3	19%	2	13%	3	19%	2	13%	0.38
02	52	3.72	3.39	-0.33	2	4%	18	35%	1	2%	7	13%	7	13%	7	13%	10	19%	0.40
03	6	4.10	4.09	-0.01	0	0%	4	67%	0	0%	0	0%	1	17%	1	17%	0	0%	0.67
04	36	3.95	3.13	-0.82	2	6%	10	28%	1	3%	7	19%	4	11%	8	22%	4	11%	0.36
05	21	3.81	3.80	-0.01	1	5%	9	43%	2	10%	2	10%	1	5%	5	24%	1	5%	0.57
06	57	3.95	3.58	-0.37	4	7%	20	35%	1	2%	6	11%	9	16%	10	18%	7	12%	0.44
07	33	3.83	3.81	-0.02	4	12%	11	33%	0	0%	2	6%	6	18%	9	27%	1	3%	0.45
08	76	3.96	3.40	-0.56	9	12%	23	30%	3	4%	9	12%	15	20%	8	11%	9	12%	0.48
09	5	3.93	3.64	-0.29	1	20%	1	20%	0	0%	1	20%	1	20%	1	20%	0	0%	0.40
10	6	3.88	3.82	-0.26	0	0%	5	83%	0	0%	1	17%	0	0%	0	0%	0	0%	0.83
11	5	3.78	3.89	0.11	2	40%	1	20%	0	0%	0	0%	0	0%	1	20%	1	20%	0.60
12	54	3.87	3.74	-0.13	10	19%	19	35%	2	4%	4	7%	5	9%	10	19%	4	7%	0.57
13	96	3.82	3.43	-0.39	8	8%	30	31%	3	3%	15	16%	16	17%	13	14%	11	11%	0.43
14	32	3.62	3.19	-0.43	1	3%	8	25%	3	9%	8	25%	7	22%	3	9%	2	6%	0.38
15	33	3.78	3.56	-0.22	3	9%	5	15%	3	9%	9	27%	8	24%	2	6%	3	9%	0.33
16	95	3.83	3.79	-0.04	14	15%	31	33%	6	6%	8	8%	13	14%	17	18%	6	6%	0.54
17	17	3.67	3.38	-0.29	2	12%	4	24%	0	0%	3	18%	2	12%	3	18%	3	18%	0.35
18	5	3.79	3.27	-0.52	1	20%	0	0%	0	0%	1	20%	0	0%	2	40%	1	20%	0.20
19	128	3.74	3.39	-0.35	5	4%	40	31%	8	6%	24	19%	20	16%	19	15%	12	9%	0.41
20	22	3.57	3.17	-0.40	1	5%	3	14%	2	9%	6	27%	4	18%	1	5%	5	23%	0.27
21	21	3.58	2.99	-0.59	0	0%	3	14%	0	0%	4	19%	5	24%	4	19%	5	24%	0.14
22	76	3.83	3.40	-0.43	0	0%	20	26%	7	9%	13	17%	12	16%	16	21%	8	11%	0.36
23	25	3.70	2.41	-1.29	0	0%	0	0%	1	4%	10	40%	9	36%	1	4%	4	16%	0.04
24	75	3.84	3.57	-0.27	2	3%	23	31%	5	7%	12	16%	15	20%	10	13%	8	11%	0.40
25	63	4.01	3.74	-0.27	4	6%	23	37%	2	3%	5	8%	11	17%	15	24%	3	5%	0.46
26	23	3.76	3.22	-0.54	2	9%	10	43%	0	0%	4	17%	4	17%	1	4%	2	9%	0.52
2-Yr. Trans.	1078	3.82	3.47	-0.35	78	7%	326	30%	51	5%	164	15%	177	16%	170	16%	112	10%	0.42
4-Yr. Trans.	1289	3.67	3.53	-0.14	116	9%	313	24%	88	7%	153	12%	236	18%	265	21%	116	9%	0.40
Sophs. & Jrs.	1388	3.65	3.56	0.09	553	40%	411 #	30%	102 #	7%	NA	—	NA	—	NA	—	NA	—	0.78##

*Community colleges with fewer than five transfers in the group.

**Retention Ratio: The proportion of Fall, 1981 transfers which has graduated or completed the term on clear or probationary status.

#Figures based on term seven.

##May be slightly inflated because some students re-enrolled and are counted twice.

NA-Cumulative figures not available. Dropped, withdrawn, left on clear, and left on probation figures total 23% of Fall, 1981 transfers.

shows the drop in first term GPA when compared with the pre-transfer GPA. Columns 6 through 19 report academic status after the eighth term, while Column 20 reports retention ratios for the coded community colleges, the two-year transfer group, the four-year transfer group, and the continuing sophomores and juniors group.

Comparison of pre-transfer and first term GPA shows that fourteen institutions had at least a .30 drop in mean GPA, with one institution (Code 23) having a decrease greater than one letter grade. The average decrease for the community college group is .35, and the four-year college transfers decreased their mean GPA from 3.67 to 3.53, while the natives dropped from 3.65 to 3.56.

The retention rates for each of the community colleges with five or more transfers are presented in Column 20 of Table 4. One community college (Code 10) shows a retention ratio of .83 after eight terms. Six community college groups had retention rates of .50 and less than .83. Nineteen community college groups had retention rates less than .50.

Table 5 presents an analysis of the relationship between the drop in mean first term GPA and the retention ratio for the twenty-six community college groups. There is an inverse correlation ($r = -.69$, $p < .001$) between the institutional drop in first term GPA and the retention ratios for community college students. Institutions with modest decreases in first term GPA had a higher retention ratio (see Columns 3 and 4) than institutions with mean GPA's more than .45 lower than their pre-transfer grades. It is estimated that approximately 48 percent of the variance in retention ratios among the twenty-six community college groups can be accounted for by variance in mean drop in first term GPA at UIC.

TABLE 5

Relationship of Drop in Mean First Term GPA and Retention Ratio
University of Illinois at Chicago -- Fall, 1981 Group

Conf. Inst. Code (1)	Number of Transfers (2)	Mean Drop in Inst. GPA (X) (3)	Retention Ratio (Y) (4)
01*	16	0.46	0.38
02	52	0.33	0.40
03	6	0.01	0.67
04	36	0.82	0.36
05	21	0.01	0.57
06	57	0.37	0.44
07	33	0.02	0.45
08	76	0.56	0.46
09	5	0.29	0.40
10	6	0.26	0.83
11	5	+0.11	0.60
12	54	0.13	0.57
13	96	0.39	0.43
14	32	0.43	0.38
15	33	0.22	0.33
16	95	0.04	0.54
17	17	0.29	0.35
18	5	0.52	0.20
19	128	0.35	0.41
20	22	0.40	0.27
21	21	0.59	0.14
22	76	0.43	0.36
23	25	1.29	0.04
24	75	0.27	0.40
25	63	0.27	0.46
26	23	0.54	0.52
Total 2-Yr. Trans.	1078	0.35	0.43

$S.D._X = 0.29$ $S.D._Y = 0.16$

$r_{XY} = -0.69^{**}$

$r^2 = 0.48$

slope = -0.39

intercept = 0.56

$Y = -0.39X + 0.56$

*Community colleges with fewer than five transfers in the group.
**Significant at .001.

A review of the trend in retention and academic achievement at UIC since 1966 reveals changes in relation to transfer students. Table 6 reports that the number of community college transfers to UIC increased dramatically when comparing 1966 to 1973; transfers have decreased by approximately 200 in both 1976 and 1978, but increased by slightly over 100 in 1979 and by nearly 100 in 1980. In 1981, the number of community college transfers decreased slightly (31). Pre-transfer GPA's for community college transfers to UIC have remained fairly constant in each of the six years reported in Table 6. Retention rates one year after transfer have been similar to previously studied community college transfers; the two-year retention rate for 1978 transfers was substantially lower than those of previous years, decreasing from .47 in 1966 to .34 in 1978, but increasing from .38 in 1979 and 1980 to .43 in 1981.

Graduation rates two years after transfer have declined from 14 percent in 1973 to 7 percent in 1981, a major change. Based on the pre-transfer GPA's, it would not be anticipated that the graduation rates would have declined. The data in this study do not explain the reasons for this change.

Table 7 reports trends in four-year college transfer student progress at UIC. The enrollment trends of four-year college transfers resemble those of community college transfers, with the exception that enrollment declines for four-year transfers were more pronounced in 1976 and 1978. The margin of increase for 1979 and 1980 is similar to the community college group, but in 1981 there was a substantial increase (451) in enrollment of four-year college transfers, while the community college transfer enrollment declined slightly. Pre-transfer GPA's for four-year transfers were higher in 1976 (3.70), fell to 3.57 in 1978, returned to 3.70 in 1979, fell again in 1980 (3.66), and increased only slightly in 1981 (3.67). Mean first term GPA in 1981 decreased by .12 from 1973, but increased .06 from the mean first term GPA in 1978.

TABLE 6

Trends in Community College Transfer Student Performance

University of Illinois at Chicago

1966, 1973, 1976, 1978, 1979, 1980, and 1981 Transfers

Variable (1)	1966 (2)	1973 (3)	1976 (4)	1978 (5)	1979 (6)	1980 (7)	1981 (8)
Number of Transfers	457	1317	1115	907	1030	1109	1078
Pre-Transfer GPA	3.75	3.73	3.80	3.77	3.82	3.82	3.82
Mean 1st (F) Term GPA	3.13	3.26	3.31	3.29	3.23	3.30	3.47
Mean 2nd (W) Term GPA	3.23	3.40	3.34	3.39	3.32	3.43	3.46
Mean 3rd (S) Term GPA	3.48	3.53	3.44	3.46	3.45	3.51	3.49
Mean 5th (F) Term GPA	3.35	3.61	NA	3.58	3.54	3.52	3.55
Mean 6th (W) Term GPA	3.58	3.66	NA	3.61	3.58	3.59	3.64
Mean 7th (S) Term GPA	3.61	3.69	NA	3.64	3.68	3.67	3.70
Retention Ratio One Year After Transfer	.59	.63	.62	.54	.58	.58	.62
Retention Ratio Two Years After Transfer	.47	.43	NA	.34	.38	.38	.42
Retention Ratio Three Years After Transfer	.46	.35	NA	NA	NA	NA	NA
Graduation Ratio Two Years After Transfer	.12	.14	NA	.07	.06	.07	.07

TABLE 7

Trends in Four-Year College Transfer Student Performance

University of Illinois at Chicago

1973, 1976, 1978, 1979, 1980, and 1981 Transfers

Variable (1)	1973 (2)	1976 (3)	1978 (4)	1979 (5)	1980 (6)	1981 (7)
Number of Transfers	1249	892	680	809	838	1289
Pre-Transfer GPA	3.59	3.70	3.57	3.70	3.66	3.67
Mean 1st (F) Term GPA	3.65	3.67	3.47	3.59	3.61	3.53
Mean 2nd (W) Term GPA	3.72	3.69	3.57	3.63	3.69	3.63
Mean 3rd (S) Term GPA	3.77	3.76	3.64	3.67	3.68	3.66
Mean 5th (F) Term GPA	3.76	NA	3.72	3.58	3.69	3.63
Mean 6th (W) Term GPA	3.82	NA	3.68	3.73	3.71	3.55
Mean 7th (S) Term GPA	3.92	NA	3.78	3.74	3.73	3.68
Retention Ratio One Year After Transfer	.64	.56	.58	.59	.57	.56
Retention Ratio Two Years After Transfer	.44	NA	.41	.39	.40	.40
Retention Ratio Three Years After Transfer	.39	NA	NA	NA	NA	NA
Graduation Ratio Two Years After Transfer	.16	NA	.10	.08	.08	.09

Retention ratios one year after transfer vary from a high of .64 in 1966 to a low of .56 in 1981. While retention ratios were not available for the 1976 group, the retention ratio for the 1973 group two years after transfer (.44) approximates the 1978 retention ratio of .41, and the 1981 retention ratio of .40. The graduation rate two years after transfer has declined from 16 percent in 1973 to a low of 8 percent in 1980, and in 1981 the graduation rate two years after transfer was 9 percent.

III. SUMMARY, DISCUSSION, AND INTERPRETATION OF FINDINGS

Summary of Findings

1. The community college transfer group entered UIC with a pre-transfer GPA of 3.82, which is .15 higher than the pre-transfer GPA (3.67) of the four-year college transfer group, and .17 higher than the UIC native group (3.65).

2. Community college transfers achieved first term mean UIC grade point averages .35 below their pre-transfer GPA, while four-year transfers (.14) and the natives (.09) achieved an average GPA only slightly lower than their previous achievement. This is an improvement over 1980 when the drop in GPA was .52 for community colleges.

3. UIC community college transfers did not exceed their mean pre-transfer grade point average during the eight terms included in this study, and the four-year college transfers achieved GPA's which exceeded that group's pre-transfer GPA only one term. The native group achieved GPA's equal to or above that group's lower division GPA for three of the eight terms.

4. Forty-two percent of the community college transfers and 40 percent of the four-year college transfers had graduated or were retained after eight terms, while the comparable figure for the native students was 78 percent.

5. Approximately 25 percent of the community college transfer group and 21 percent of the four-year transfer group left UIC for academic reasons. Comparable information was not available for the group of native students.

6. Fifteen percent of the community college transfers and 12 percent of the four-year college transfers were dropped and did not re-enter UIC. Comparable data were not available for the group of native students.

7. Approximately 16 percent of the community college transfers and 21 percent of the four-year college transfers left on clear status and did not re-enroll at UIC.

8. Approximately 10 percent of the community college transfers and 9 percent of the four-year transfers left on probation and did not re-enroll.

9. Community college transfers achieved a lower mean UIC GPA in a majority of the ten subject areas studied than did the four-year transfers or the native group. The performance of the four-year college transfer group more closely resembled that of the natives than that of the community college group in the various subject areas.

10. Community college transfers were consistently below average group achievement in the subject areas of math and biological sciences. Four-year college transfers were consistently below average group achievement in the subject areas of engineering, biological sciences, business administration, and math.

11. There was a negative correlation (-.69) between the average first term drop in mean GPA and the final retention ratio for individual community colleges. Those institutions whose transfer students to UIC experienced the largest drop between pre-transfer GPA and first term UIC GPA also experienced the lowest retention ratios after eight terms.

12. Retention ratios one year after transfer for the community college group have ranged from .63 (1973) to .54 (1978), and was .62 in 1981. The comparable figures for four-year college transfers have varied from .64 in 1973 to .56 in 1981. Retention ratios two years after transfer for the 1981 community college group and the four-year college transfers were similar (.42 and .40). These figures represent an increase for the community college group over the 1980 retention ratio, and the four-year group remained the same.

13. Graduation rates two years after transfer have declined by approximately one-half for community college and four-year college transfers when compared with 1973 groups. During this same period, the graduation rate for the control group of native sophomores and juniors remained constant at about 43 percent.

Discussion and Interpretation of Findings

The findings presented in this study indicate that community college transfers did not achieve as well after transfer to UIC as they did before transfer, while four-year college transfers and continuing sophomores and juniors achieved GPA's similar to those they had achieved prior to selection for this study. This is not a new finding; previous studies at both UIC and UIUC, along with national studies, have supported this finding. However, this study presents data which conflict with the statewide report by Lach,[28] but support previous studies of transfer students to the two campuses of the University of Illinois.

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[28]Lach, Statewide Follow-up Study, September, 1978.

Retention, including graduation and continuing on clear or probation, was lower for community college transfers (.42) and for four-year college transfers (.40) than for continuing sophomores and juniors (.78). These data support the hypothesis that transfer students do not achieve as well after transfer to UIC as continuing sophomores and juniors who entered as beginning freshmen and completed one to three years at UIC.

These findings are supported by a recent study conducted at the University of Missouri-St. Louis, an urban institution similar to UIC.[29] The results of the study show that beginning freshmen have a higher retention rate than transfer students at UMSL.

The reasons for leaving the University are helpful in analysis of the success data for various groups. Approximately 25 percent of the community college transfers and 21 percent of the four-year transfers were dropped or left on probation during the two-year period of the study. These data further support the hypothesis that community college transfers and four-year transfers as a group are less well prepared to achieve minimum standards and meet graduation requirements at UIC than continuing sophomores and juniors.

The findings and implications presented in this study need to be interpreted in the context of the environment in which the research was conducted and evaluated in relation to the differential purposes of the types of institutions represented by students in the study. One purpose of community colleges is to prepare baccalaureate-oriented students for successful transfer

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[29] A. Nancy Avakian, Arthur C. MacKinney, and Glenn R. Allen, "Race and Sex Differences in Student Retention at an Urban University," College and University, Vol. 57, No. 2. Athens, Ohio: American Association of Collegiate Registrars and Admissions Officers, 1982, pp. 160-165.

to four-year colleges and universities for completion of bachelor's degrees. Community colleges are "open door" institutions obligated by statute and practice to admit all students who are minimally qualified to complete one of their programs. This means that community colleges enroll students in baccalaureate-oriented courses and programs who are high academic achievers as well as students with average and below average academic achievement, with lower probability of achieving success in a transfer program. It is from this population of applicants that community college transfer applicants are selected for admission to UIC in competition with transfers from four-year colleges and universities.

The major purposes of the undergraduate colleges at the University of Illinois are to provide the general education, technical and professional knowledge, and skills to qualify graduates for leadership roles in society at the bachelor's degree level and to prepare students for successful admission into and completion of graduate and professional programs. The University of Illinois at Chicago admits the "best qualified" beginning freshmen and transfers to each of its colleges and curricula for each admission period. Data for the 1984 beginning freshman classes show that the average beginning freshman student graduated at about the 74th percentile of his or her high school graduating class and had an ACT composite score of just over twenty.[30]

The community colleges of Illinois provide an opportunity for many students to enter UIC's undergraduate programs as transfer students who would not have been admitted under the more competitive beginning freshman

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[30]Ira W. Langston IV, "The University of Illinois at Chicago Freshman Class Profile, Fall, 1984." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 84-7, December, 1984.

requirements. The community colleges provide access and opportunity for many students to obtain admission and complete bachelor's degree programs which would not have been a choice directly open to them following high school graduation. More than 42 percent of the community college transfer students are successful at UIC as measured by retention eight terms after transfer. The "success rate" is about 2 percent less for transfers from four-year colleges and approximately 36 percent more for native sophomores and juniors who have already successfully completed one to three years at UIC. While there is still a need for increased retention of transfer students at UIC, the 1981 community college transfer group did exceed the 1980 retention ratio. Access is important, but access without successful achievement of graduation or another equivalent objective is less than either the students or the University should be willing to accept.

IV. POLICY CONSIDERATIONS

The findings of this study document the performance of community college transfers and four-year college transfers in 1981 compared to previous years as measured by pre-transfer GPA, UIC GPA's, retention, and graduation. In general, these data identify and document some continuing problems regarding academic achievement and retention for community college and four-year college transfers which should be considered and evaluated in future policy considerations.

One problem which warrants further study and analysis as a basis for future policy consideration is that community college transfers continue to experience at least a .35 drop in grade point average when they transfer to UIC; the fall, 1981 group recovered very little (.02) of this drop in the end

of the first year after transfer, but recovered by another three-fifths (.21) by the end of two years. The four-year college transfers experienced about two-fifths as much transfer shock (-.14), and they recover and achieve slightly below their pre-transfer level at the end of one year. At the end of two years, the remaining students were achieving slightly above their pre-transfer GPA. Both groups achieved at an improved level of performance by the fifth term after transfer.

It is clear from this study and previous transfer studies at UIC that community college transfers have more problems with scholarship and achievement after transfer than four-year college transfers. Fifteen percent, or one of each seven community college transfers, were dropped for academic reasons and never returned. In total, about one in four community college transfers left the University and did not return because of academic difficulty during the two years after transfer. The comparable figure for four-year college transfers is 21 percent (or about one in five). The major policy question is whether or not the University should attempt to reduce the relatively high number of community college transfers who are dropped after entering UIC with "good" community college records.

A growing problem is the decline in the two-year graduation rate for both community college and four-year transfers from about 14 to 15 percent in 1973 to about 7 to 9 percent in 1981, even while the graduation rate for natives seems to have remained constant at about 40 percent. The current increase in retention rates for community college transfers is encouraging and may ultimately result in an increase in graduation rates.

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APPENDIX A

Fall, 1981 Grade Point Average and Academic Status of Community College Transfers by Institution of Last Attendance
University of Illinois at Chicago
Fall, 1981 Group

Conf. Inst. Code (1)	No. Fall 1981 Trans. (2)	Mean Trans. GPA (3)	Mean 1st Term GPA (4)	Change in Mean GPA (5)	Academic Status[1] Grad. No. (6)	Grad. % (7)	Clear No. (8)	Clear % (9)	Pro. No. (10)	Pro. % (11)	Dropped No. (12)	Dropped % (13)	Withdrawn No. (14)	Withdrawn % (15)	[2] Retention Ratio (16)
01*	16	3.62	3.16	-0.46	0	**0%	10	63%	5	31%	1	6%	0	0%	0.94
02	52	3.72	3.39	-0.33	0	0%	35	67%	15	29%	1	2%	1	2%	0.98
03	6	4.10	4.09	-0.01	0	0%	5	83%	1	17%	0	0%	0	0%	1.00
04	36	3.95	3.13	-0.82	0	0%	22	61%	10	28%	3	8%	1	3%	0.89
05	21	3.81	3.80	-0.01	0	0%	16	76%	4	19%	1	5%	0	0%	0.95
06	57	3.95	3.58	-0.37	0	0%	43	75%	11	19%	2	4%	1	2%	0.95
07	33	3.83	3.81	-0.02	0	0%	25	76%	3	9%	2	6%	3	9%	0.85
08	76	3.96	3.40	-0.56	0	0%	48	63%	15	20%	5	7%	8	11%	0.83
09	5	3.93	3.64	-0.29	0	0%	5	100%	0	0%	0	0%	0	0%	1.00
10	6	3.88	3.82	-0.26	0	0%	5	83%	0	0%	1	17%	0	0%	0.83
11	5	3.78	3.89	0.11	0	0%	5	100%	0	0%	0	0%	0	0%	1.00
12	54	3.87	3.74	-0.13	0	0%	46	85%	8	15%	0	0%	0	0%	1.00
13	96	3.82	3.43	-0.39	0	0%	67	70%	24	25%	1	1%	4	4%	0.95
14	32	3.82	3.19	-0.43	0	0%	21	66%	6	19%	1	3%	4	13%	0.84
15	33	3.78	3.56	-0.22	0	0%	22	67%	7	21%	1	3%	3	9%	0.88
16	95	3.83	3.79	-0.04	0	0%	70	74%	12	13%	4	4%	9	9%	0.88
17	17	3.67	3.38	-0.29	0	0%	11	65%	4	24%	1	6%	1	6%	0.88
18	5	3.79	3.27	-0.52	0	0%	3	60%	2	40%	0	0%	0	0%	1.00
19	128	3.74	3.39	-0.35	0	0%	77	60%	38	30%	3	2%	10	8%	0.90
20	22	3.57	3.17	-0.40	1	5%	8	36%	11	50%	1	5%	1	5%	0.91
21	21	3.58	2.99	-0.59	0	0%	10	48%	9	43%	0	0%	2	10%	0.90
22	76	3.83	3.40	-0.43	0	0%	53	70%	11	14%	7	9%	5	7%	0.84
23	25	3.70	2.41	-1.29	0	0%	5	20%	12	48%	5	20%	3	12%	0.88
24	75	3.84	3.57	-0.27	0	0%	55	73%	14	19%	1	1%	5	7%	0.92
25	63	4.01	3.74	-0.27	0	0%	48	76%	7	11%	3	5%	5	8%	0.87
26	23	3.76	3.22	-0.54	0	0%	13	57%	7	30%	1	4%	2	9%	0.87
2-Yr. Trans.	1078	3.82	3.47	-0.35	1	0%	728	68%	236	22%	45	4%	68	6%	0.90
4-Yr. Trans.	1289	3.87	3.53	-0.14	8	1%	846	66%	250	19%	80	6%	105	8%	0.86
Sophs. & Jrs.	1368	3.85	3.56	-0.09	1	0%	1060	77%	242	18%	28	2%	37	3%	0.95

1-Percents based on number of transfer students enrolled in 1981 Fall term (Col. 2).

2-Retention Ratio: The proportion of total Fall, 1981 transfers which has graduated or completed the 1st term on clear or probationary status.

*Community colleges with fewer than five transfers in the group. **0% includes 0-.99%.

APPENDIX B

Winter, 1982 Grade Point Average and Academic Status of Community College Transfers by Institution of Last Attendance
University of Illinois at Chicago
Fall, 1981 Group

Conf. Inst. Code [1]	No. Fall 1981 Trans. [2]	No. Re-enrolled Winter 1982 [3]	Mean Trans. GPA [4]	Mean 2nd Term GPA [5]	Change in Mean GPA [6]	Incr. in Mean GPA Over 1st [7]	Academic Status[1] Grad. No. [8]	Grad. % [9]	Clear No. [10]	Clear % [11]	Pro. No. [12]	Pro. % [13]	Dropped No. [14]	Dropped % [15]	Withdrawn No. [16]	Withdrawn % [17]	Retention Ratio[2] [18]
01*	16	13	3.72	2.97	-0.75	-0.19	0	**0%	8	62%	3	23%	1	8%	1	8%	0.88
02	52	45	3.72	3.21	-0.51	-0.18	0	0%	28	62%	12	27%	3	7%	2	4%	0.77
03	6	6	4.11	3.86	-0.25	-0.23	0	0%	4	67%	1	17%	0	0%	1	17%	0.83
04	36	27	4.06	3.28	-0.78	0.15	0	0%	18	67%	8	30%	1	4%	0	0%	0.72
05	21	20	3.83	3.78	-0.05	-0.02	0	0%	15	75%	4	20%	0	0%	1	5%	0.90
06	57	48	3.94	3.64	-0.30	0.06	0	0%	36	75%	10	21%	1	2%	1	2%	0.81
07	33	21	3.95	3.89	-0.06	0.08	0	0%	17	81%	4	19%	0	0%	0	0%	0.64
08	78	53	3.96	3.57	-0.39	0.17	0	0%	36	68%	12	23%	1	2%	4	8%	0.63
09	5	5	3.93	3.89	-0.04	0.25	0	0%	5	100%	0	0%	0	0%	0	0%	1.00
10	6	5	3.93	3.65	-0.28	0.03	0	0%	4	80%	1	20%	0	0%	0	0%	0.83
11	5	5	3.78	2.83	-0.95	-1.06	0	0%	2	40%	3	60%	0	0%	0	0%	1.00
12	54	49	3.87	3.76	-0.11	0.02	0	0%	41	84%	4	8%	2	4%	2	4%	0.83
13	96	83	3.86	3.33	-0.53	-0.10	0	0%	49	59%	24	29%	3	4%	7	8%	0.78
14	32	23	3.59	3.15	-0.44	-0.04	0	0%	14	61%	7	30%	2	9%	0	0%	0.66
15	33	26	3.80	3.45	-0.35	-0.11	0	0%	19	73%	6	23%	1	4%	0	0%	0.78
16	95	76	3.82	3.75	-0.07	-0.04	0	0%	61	80%	12	16%	1	1%	2	3%	0.77
17	17	13	3.72	3.71	-0.01	0.33	0	0%	10	77%	1	8%	1	8%	1	8%	0.65
18	5	3	3.90	2.82	-1.08	-0.45	0	0%	2	67%	0	0%	1	33%	0	0%	0.40
19	128	104	3.75	3.48	-0.27	0.09	0	0%	63	61%	35	34%	4	4%	2	2%	0.77
20	22	15	3.67	3.02	-0.65	-0.15	0	0%	6	40%	5	33%	1	7%	3	20%	0.55
21	21	14	3.49	2.58	-0.91	-0.41	0	0%	4	29%	6	43%	2	14%	2	14%	0.48
22	76	59	3.90	3.37	-0.53	-0.03	0	0%	39	66%	16	27%	1	2%	3	5%	0.72
23	25	13	3.71	2.88	-0.83	0.47	0	0%	5	38%	4	31%	1	8%	3	23%	0.36
24	75	62	3.07	3.35	0.28	-0.22	0	0%	39	63%	14	23%	5	8%	4	6%	0.71
25	83	46	4.04	3.54	-0.50	-0.20	0	0%	31	67%	11	24%	0	0%	4	9%	0.67
26	23	18	3.80	3.34	-0.46	0.12	0	0%	11	61%	7	39%	0	0%	0	0%	0.78
2-Yr. Trans.	1078	852	3.84	3.48	-0.38	-0.01	0	0%	567	67%	210	25%	32	4%	43	5%	0.72
4-Yr. Trans.	1289	949	3.70	3.63	-0.07	0.10	7	1%	635	67%	191	20%	36	4%	80	8%	0.65
Sophs. & Jrs.	1368	1258	3.68	3.63	-0.05	0.07	3	0%	998	79%	195	16%	23	2%	39	3%	0.88

1-Percents based on number of transfer students enrolled in 1982 Winter term [Col. 3].

2-Retention Ratio: The proportion of total Fall, 1981 transfers which has graduated or completed the 2nd term on clear or probationary status.

*Community colleges with fewer than five transfers in the group. **0% includes 0-.99%.

APPENDIX C

Spring, 1982 Grade Point Average and Academic Status of Community College Transfers by Institution of Last Attendance
University of Illinois at Chicago
Fall, 1981 Group

Conf. Inst. Code (1)	No. Fall 1981 Trans. (2)	No. Re-enrolled Spring 1982 (3)	Mean Trans. GPA (4)	Mean 3rd Term GPA (5)	Change in Mean GPA (6)	Incr. in Mean GPA Over 2nd (7)	Academic Status[1] Grad. No. (8)	Grad. % (9)	Clear No. (10)	Clear % (11)	Pro. No. (12)	Pro. % (13)	Dropped No. (14)	Dropped % (15)	Withdrawn No. (16)	Withdrawn % (17)	Retention Ratio[2] (18)
01*	16	10	3.88	2.98	-0.70	0.01	0	**0%	5	50%	3	30%	1	10%	1	10%	0.50
02	52	37	3.75	3.36	-0.39	0.15	0	0%	23	62%	10	27%	2	5%	2	5%	0.83
03	6	5	3.95	4.00	0.05	0.14	0	0%	4	80%	1	20%	0	0%	0	0%	0.83
04	36	25	4.13	3.10	-1.03	-0.18	0	0%	15	60%	8	32%	1	4%	1	4%	0.84
05	21	19	3.83	3.72	-0.11	-0.06	0	0%	15	79%	4	21%	0	0%	0	0%	0.90
06	57	45	3.95	3.61	-0.34	-0.03	0	0%	35	78%	7	16%	3	7%	0	0%	0.74
07	33	20	3.97	3.83	-0.14	-0.06	0	0%	17	85%	1	5%	0	0%	2	10%	0.55
08	76	47	3.91	3.40	-0.51	-0.17	0	0%	34	72%	6	13%	4	9%	3	6%	0.53
09	5	5	3.93	3.63	-0.30	-0.26	0	0%	3	60%	1	20%	0	0%	1	20%	0.80
10	6	5	3.88	3.50	-0.38	-0.15	0	0%	3	60%	2	40%	0	0%	0	0%	0.83
11	5	4	3.73	3.58	-0.15	0.75	0	0%	3	75%	1	25%	0	0%	0	0%	0.80
12	54	41	3.89	3.80	-0.09	0.04	0	0%	32	78%	8	20%	0	0%	1	2%	0.74
13	96	65	3.89	3.44	-0.45	0.11	0	0%	48	74%	13	20%	3	5%	1	2%	0.64
14	32	20	3.64	3.30	-0.34	0.15	0	0%	12	60%	4	20%	2	10%	2	10%	0.50
15	33	26	3.81	3.25	-0.56	-0.20	0	0%	18	69%	4	15%	1	4%	3	12%	0.67
16	95	68	3.84	3.81	-0.03	0.06	1	1%	54	79%	9	13%	2	3%	2	3%	0.67
17	17	9	3.79	3.50	-0.29	-0.21	0	0%	6	67%	3	33%	0	0%	0	0%	0.53
18	5	2	4.08	4.11	0.03	1.29	0	0%	2	100%	0	0%	0	0%	0	0%	0.40
19	128	98	3.79	3.46	-0.33	-0.02	0	0%	61	62%	27	28%	7	7%	3	3%	0.69
20	22	11	3.78	2.89	-0.89	-0.13	0	0%	6	55%	3	27%	2	18%	0	0%	0.45
21	21	8	3.25	2.80	-0.45	0.22	0	0%	3	38%	4	50%	1	13%	0	0%	0.33
22	76	50	3.97	3.41	-0.56	0.04	0	0%	30	60%	13	26%	4	8%	3	6%	0.57
23	25	9	3.75	2.46	-1.29	-0.42	0	0%	2	22%	3	33%	1	11%	3	33%	0.20
24	75	48	3.91	3.44	-0.47	0.09	0	0%	32	67%	11	23%	2	4%	3	6%	0.57
25	63	43	4.11	3.65	-0.46	0.11	0	0%	34	79%	7	16%	2	5%	0	0%	0.65
26	23	19	3.82	3.32	-0.50	-0.02	0	0%	12	63%	4	21%	2	11%	1	5%	0.70
2-Yr. Trans.	1078	739	3.88	3.49	-0.39	0.03	1	0%	509	69%	157	21%	40	5%	32	4%	0.82
4-Yr. Trans. Sophs. & Jrs.	1289	803	3.72	3.66	-0.06	0.03	17	2%	550	68%	143	18%	35	4%	58	7%	0.56
	1368	1215	3.69	3.65	-0.04	0.02	58	5%	914	75%	207	17%	21	2%	15	1%	0.86

1-Percents based on number of transfer students enrolled in 1982 Spring term (Col. 3).

2-Retention Ratio: The proportion of total Fall, 1981 transfers which has graduated or completed the 3rd term on clear or probationary status.

*Community colleges with fewer than five transfers in the group. **0% includes 0-.99%.

APPENDIX D

Fall, 1982 Grade Point Average and Academic Status of Community College Transfers by Institution of Last Attendance
University of Illinois at Chicago
Fall, 1981 Group

Conf. Inst. Code (1)	No. Fall 1981 Trans. (2)	No. Re-enrolled Fall 1982 (3)	Mean Trans. GPA (4)	Mean 5th Term GPA (5)	Change in Mean GPA (6)	Incr. in Mean GPA Over 3rd (7)	Academic Status[1] Grad. No. (8)	Grad. % (9)	Clear No. (10)	Clear % (11)	Pro. No. (12)	Pro. % (13)	Dropped No. (14)	Dropped % (15)	Withdrawn No. (16)	Withdrawn % (17)	Retention Ratio[2] (18)
01*	16	6	3.96	3.16	-0.80	0.18	0	**0%	3	50%	3	50%	0	0%	0	0%	0.38
02	52	27	3.83	3.49	-0.34	0.13	0	0%	16	59%	8	30%	2	7%	1	4%	0.48
03	6	5	3.95	3.85	-0.10	-0.15	0	0%	5	100%	0	0%	0	0%	0	0%	0.83
04	36	17	4.26	3.58	-0.68	0.48	0	0%	12	71%	3	18%	1	6%	1	6%	0.42
05	21	15	3.78	3.74	-0.04	0.02	0	0%	11	73%	4	27%	0	0%	0	0%	0.71
06	57	36	3.95	3.67	-0.28	0.08	0	0%	26	72%	9	25%	0	0%	1	3%	0.81
07	33	16	4.07	4.09	0.02	0.26	0	0%	15	94%	1	6%	0	0%	0	0%	0.48
08	78	40	3.99	3.64	-0.35	0.24	0	0%	31	78%	7	18%	2	5%	0	0%	0.50
09	5	3	3.78	3.18	-0.60	-0.45	0	0%	1	33%	2	67%	0	0%	0	0%	0.80
10	6	5	3.88	3.68	-0.20	0.18	0	0%	5	100%	0	0%	0	0%	0	0%	0.83
11	5	3	3.95	3.83	-0.12	0.25	0	0%	3	100%	0	0%	0	0%	0	0%	0.60
12	54	36	3.88	3.95	0.07	0.15	0	0%	30	83%	5	14%	0	0%	1	3%	0.65
13	98	54	3.91	3.29	-0.62	-0.15	1	2%	37	69%	9	17%	6	11%	1	2%	0.50
14	32	17	3.73	3.27	-0.46	-0.03	1	6%	9	53%	5	29%	2	12%	0	0%	0.47
15	33	21	3.90	3.21	-0.69	-0.04	0	0%	14	67%	2	10%	3	14%	2	10%	0.48
16	95	54	3.81	3.78	-0.03	-0.03	0	0%	46	85%	7	13%	0	0%	1	2%	0.57
17	17	7	3.72	3.70	-0.02	0.20	0	0%	5	71%	1	14%	1	14%	0	0%	0.35
18	5	1	3.81	3.25	-0.56	-0.86	0	0%	1	100%	0	0%	0	0%	0	0%	0.20
19	128	72	3.82	3.49	-0.33	0.03	0	0%	54	75%	7	10%	6	8%	5	7%	0.49
20	22	9	3.85	3.01	-0.84	0.12	0	0%	4	44%	3	33%	2	22%	0	0%	0.38
21	21	6	3.38	2.95	-0.41	0.15	0	0%	2	33%	2	33%	1	17%	1	17%	0.19
22	78	33	3.92	3.58	-0.34	0.17	0	0%	28	85%	4	12%	1	3%	0	0%	0.42
23	25	5	3.72	1.77	-1.95	-0.69	0	0%	0	0%	1	20%	4	80%	0	0%	0.04
24	75	37	3.92	3.41	-0.51	-0.03	0	0%	29	78%	4	11%	2	5%	2	5%	0.44
25	63	34	4.06	3.64	-0.42	-0.01	0	0%	28	82%	5	15%	0	0%	1	3%	0.54
26	23	14	3.94	3.50	-0.44	0.18	0	0%	9	64%	3	21%	1	7%	1	7%	0.52
2-Yr. Trans.	1078	573	3.90	3.55	-0.35	0.06	2	0%	424	74%	95	17%	34	6%	18	3%	0.49
4-Yr. Trans.	1289	632	3.72	3.63	-0.09	-0.03	15	2%	448	71%	107	17%	20	3%	42	7%	0.47
Sophs. & Jrs.	1368	1067	3.88	3.59	-0.09	-0.06	81	8%	767	72%	173	16%	21	2%	25	2%	0.81

1-Percents based on number of transfer students enrolled in 1982 Fall term (Col. 3).

2-Retention Ratio: The proportion of total Fall, 1981 transfers which has graduated or completed the 5th term on clear or probationary status.

*Community colleges with fewer than five transfers in the group. **0% includes 0-.99%.

APPENDIX E

Winter, 1983 Grade Point Average and Academic Status of Community College Transfers by Institution of Last Attendance
University of Illinois at Chicago
Fall, 1981 Group

Conf. Inst. Code [1]	No. Fall 1981 Trans. [2]	No. Re-enrolled Winter 1983 [3]	Mean Trans. GPA [4]	Mean 6th Term GPA [5]	Change in Mean GPA [6]	Incr. in Mean GPA Over 5th [7]	Academic Status[1] Grad. No. [8]	Grad. % [9]	Clear No. [10]	Clear % [11]	Pro. No. [12]	Pro. % [13]	Dropped No. [14]	Dropped % [15]	Withdrawn No. [16]	Withdrawn % [17]	Retention Ratio[2] [18]
01*	16	6	3.96	3.36	-0.60	0.20	0	**0%	4	67%	2	33%	0	0%	0	0%	0.38
02	52	26	3.82	3.54	-0.28	0.05	1	4%	18	69%	6	23%	1	4%	0	0%	0.48
03	6	4	3.90	3.86	-0.04	0.01	0	0%	3	75%	1	25%	0	0%	0	0%	0.67
04	36	14	4.31	3.37	-0.94	-0.21	1	7%	9	64%	4	29%	0	0%	0	0%	0.39
05	21	14	3.84	3.57	-0.27	-0.17	1	7%	8	57%	5	36%	0	0%	0	0%	0.67
06	57	33	3.96	3.96	0.00	0.29	0	0%	27	82%	3	9%	1	3%	2	6%	0.53
07	33	16	4.07	3.99	-0.08	-0.10	0	0%	15	94%	1	6%	0	0%	0	0%	0.48
08	76	39	3.99	3.86	-0.13	0.22	1	3%	33	85%	3	8%	0	0%	2	5%	0.49
09	5	3	3.78	3.68	-0.10	0.50	0	0%	2	67%	1	33%	0	0%	0	0%	0.60
10	6	5	3.88	3.82	-0.06	0.14	0	0%	5	100%	0	0%	0	0%	0	0%	0.83
11	5	3	3.95	4.20	0.25	0.37	1	33%	2	67%	0	0%	0	0%	0	0%	0.60
12	54	35	3.90	3.77	-0.13	-0.18	0	0%	31	89%	2	6%	1	3%	1	3%	0.61
13	96	45	3.98	3.39	-0.59	0.10	1	2%	36	80%	8	18%	0	0%	0	0%	0.49
14	32	14	3.71	3.41	-0.30	0.14	0	0%	10	71%	3	21%	1	7%	0	0%	0.44
15	33	16	3.92	3.69	-0.23	0.48	0	0%	12	75%	3	19%	1	6%	0	0%	0.45
16	95	55	3.78	3.82	0.04	0.04	2	4%	45	82%	6	11%	1	2%	1	2%	0.57
17	17	7	3.73	3.86	0.13	0.16	0	0%	6	86%	0	0%	1	14%	0	0%	0.35
18	5	1	3.81	4.25	0.44	1.00	0	0%	1	100%	0	0%	0	0%	0	0%	0.20
19	128	56	3.85	3.58	-0.27	0.09	0	0%	45	80%	9	16%	2	4%	0	0%	0.44
20	22	7	3.90	2.92	-0.98	-0.09	0	0%	2	29%	3	43%	2	29%	0	0%	0.27
21	21	5	3.48	3.69	0.21	0.74	0	0%	4	80%	1	20%	0	0%	0	0%	0.24
22	76	30	3.99	3.44	-0.55	-0.14	0	0%	22	73%	6	20%	1	3%	1	3%	0.37
23	25	2	3.87	3.06	-0.81	1.29	0	0%	0	0%	2	100%	0	0%	0	0%	0.08
24	75	32	3.93	3.65	-0.28	0.24	0	0%	25	78%	7	22%	0	0%	0	0%	0.43
25	63	32	4.07	3.41	-0.66	-0.23	0	0%	23	72%	8	25%	1	3%	0	0%	0.51
26	23	11	4.01	3.93	-0.08	0.43	0	0%	11	100%	0	0%	0	0%	0	0%	0.48
2-Yr. Trans.	1078	511	3.92	3.64	-0.28	0.09	8	2%	399	78%	84	16%	13	3%	7	1%	0.46
4-Yr. Trans.	1289	548	3.71	3.55	-0.16	-0.08	13	2%	389	71%	106	19%	19	3%	21	4%	0.44
Sophs. & Jrs.	1368	946	3.67	3.61	-0.06	0.02	82	9%	666	70%	158	17%	18	2%	22	2%	0.79

1-Percents based on number of transfer students enrolled in 1983 Winter term [Col. 3].

2-Retention Ratio: The proportion of total Fall, 1981 transfers which has graduated or completed the 6th term on clear or probationary status.

*Community colleges with fewer than five transfers in the group. **0% includes 0-.99%.

APPENDIX F

Spring, 1983 Grade Point Average and Academic Status of Community College Transfers by Institution of Last Attendance
University of Illinois at Chicago
Fall, 1981 Group

Conf. Inst. Code [1]	No. Fall 1981 Trans. [2]	No. Re-enrolled Spring 1983 [3]	Mean Trans. GPA [4]	Mean 7th Term GPA [5]	Change in Mean GPA [6]	Incr. in Mean GPA Over 6th [7]	Academic Status[1] Grad. No. [8]	Grad. % [9]	Clear No. [10]	Clear % [11]	Pro. No. [12]	Pro. % [13]	Dropped No. [14]	Dropped % [15]	Withdrawn No. [16]	Withdrawn % [17]	2 Retention Ratio [18]
01*	16	6	3.98	2.98	-0.98	-0.38	0	**0%	3	50%	3	50%	0	0%	0	0%	0.38
02	52	22	3.85	3.74	-0.11	0.20	0	0%	18	82%	2	9%	1	5%	1	5%	0.40
03	6	4	3.92	4.33	0.41	0.47	0	0%	4	100%	0	0%	0	0%	0	0%	0.67
04	36	13	4.31	3.44	-0.87	0.07	1	8%	9	69%	2	15%	1	8%	0	0%	0.36
05	21	13	3.88	3.61	-0.27	0.04	0	0%	10	77%	1	8%	1	8%	1	8%	0.57
06	57	30	3.98	3.76	-0.22	-0.20	3	10%	21	70%	3	10%	1	3%	2	7%	0.47
07	33	16	4.07	4.14	0.07	0.15	2	13%	13	81%	0	0%	0	0%	1	6%	0.45
08	76	34	4.04	3.90	-0.14	0.04	7	21%	24	71%	2	6%	0	0%	1	3%	0.45
09	5	3	3.78	3.32	-0.46	-0.36	1	33%	1	33%	0	0%	1	33%	0	0%	0.40
10	6	5	3.88	4.04	0.16	0.22	0	0%	5	100%	0	0%	0	0%	0	0%	0.83
11	5	2	3.79	3.37	-0.42	-0.83	1	50%	1	50%	0	0%	0	0%	0	0%	0.60
12	54	32	3.92	3.79	-0.13	0.02	7	22%	22	69%	3	9%	0	0%	0	0%	0.59
13	96	41	3.99	3.57	-0.42	0.18	3	7%	30	73%	5	12%	1	2%	2	5%	0.43
14	32	13	3.75	3.34	-0.41	-0.07	0	0%	9	69%	3	23%	1	8%	0	0%	0.41
15	33	16	3.94	3.27	-0.67	-0.42	3	19%	7	44%	2	13%	2	13%	2	13%	0.36
16	95	49	3.79	3.99	0.20	0.17	10	20%	33	67%	6	12%	0	0%	0	0%	0.55
17	17	6	3.73	3.69	-0.04	-0.17	3	50%	3	50%	0	0%	0	0%	0	0%	0.35
18	5	1	3.81	3.53	-0.28	-0.72	1	100%	0	0%	0	0%	0	0%	0	0%	0.20
19	128	54	3.86	3.65	-0.21	0.07	1	2%	45	83%	7	13%	1	2%	0	0%	0.43
20	22	6	4.00	3.58	-0.42	0.66	0	0%	4	67%	1	17%	1	17%	0	0%	0.27
21	21	4	3.15	2.98	-0.17	-0.71	0	0%	2	50%	1	25%	1	25%	0	0%	0.14
22	78	29	3.94	3.59	-0.35	0.15	0	0%	24	83%	4	14%	1	3%	0	0%	0.37
23	25	1	4.08	3.33	-0.75	0.27	0	0%	0	0%	1	100%	0	0%	0	0%	0.04
24	75	32	3.93	3.67	-0.26	0.02	2	6%	23	72%	6	19%	1	3%	0	0%	0.41
25	63	30	4.11	3.60	-0.51	0.19	2	7%	22	73%	5	17%	0	0%	1	3%	0.48
26	23	12	3.99	3.99	0.00	0.06	2	17%	9	75%	1	8%	0	0%	0	0%	0.52
2-Yr. Trans.	1078	474	3.93	3.70	-0.23	0.06	49	10%	342	72%	58	12%	14	3%	11	2%	0.43
4-Yr. Trans.	1289	491	3.72	3.88	-0.04	0.13	42	9%	327	67%	80	16%	16	3%	28	5%	0.40
Sophs. & Jrs.	1368	813	3.68	3.71	0.03	0.10	259	32%	411	51%	102	13%	18	2%	23	3%	0.75

1-Percents based on number of transfer students enrolled in 1983 Spring term [Col. 3].

2-Retention Ratio: The proportion of total Fall, 1981 transfers which has graduated or completed the 7th term on clear or probationary status.

*Community colleges with fewer than five transfers in the group.

**0% includes 0-.99%.

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